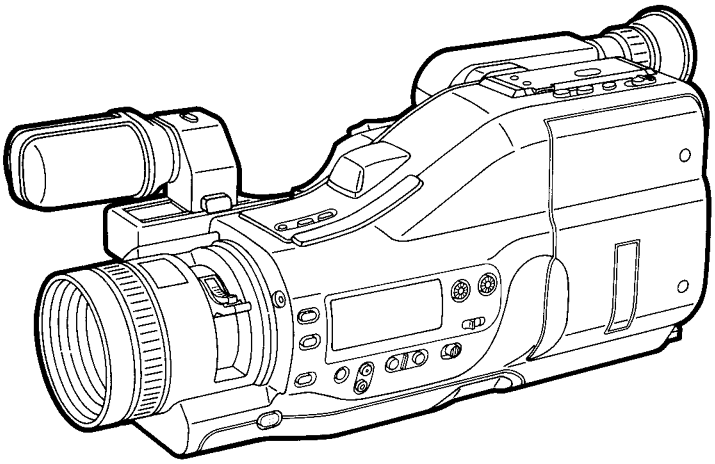
1990

MITSUBISHI

Service Manual

VIDEO CAMERA/RECORDER



S VHS C

VHS C

MODEL

HS-C50A
HS-C50B
HS-C50E

Only cassettes marked S-VHS-C or VHS-C can be used with this video cassette recorder.

SPECIFICATIONS

Format : S-VHS-C and VHS-C standard
Power source : DC 9.6 V⎓
Power consumption : Approx. 12 Watts
Signal system : PAL System
Recording system : Luminance: FM recording
Colour: Converted sub-carrier direct recording
Conforms to S-VHS/VHS standard
Hi-Fi audio: FM deep layer recording
Cassette : VHS-C cassette, S-VHS-C cassette
Tape speed (SP) : 23.39mm/sec
(LP) : 11.70mm/sec
Recording time
Max. (SP) : 45 minutes (with E-C45 cassette)
(LP) : 90 minutes (with E-C45 cassette)
VIDEO output : 1Vp-p, 75 ohm, unbalanced VIDEO OUT socket
Luminance output : 1.0Vp-p, 75 ohm, unbalanced S-VIDEO OUT socket
Chroma output : 0.3Vp-p, Burst signal 75 ohm, unbalanced S-VIDEO OUT socket
AUDIO output : −6dBs, 1k-ohm, unbalanced AUDIO OUT sockets
Microphone input : −68dBs, high impedance, unbalanced
Pick up : 12.7mm-format CCD
Minimum required illumination : 9 lux
Lens : F1.4, f8.5 – 68mm, 8:1 power zoom lens with auto iris control
Filter diameter 52mm
Viewfinder : Electronic viewfinder with 17.8mm black/white CRT
White balance adjustment : Full-auto/selectable FIX, INDOOR or OUTDOOR
Operating temperature : 0°C to +40°C
Operating humidity : 35% to 80%
Weight : 1.6kg (with EVF)
Dimensions : 136(W) × 145(H) × 355(D)mm

AC POWER ADAPTER DA-C50(A, B, E)

Power source : AC 110 ~ 240V (50/60Hz)
Power consumption : 35 watts
Rated output voltage : DC 10.4V (VCR), DC 9.6V (BATT)
Rated output current : 1.4A (VCR), 1.4A (BATT)
Charging system : Constant current, voltage controlled
Dimensions : 68.4(W) × 40.5(H) × 150(D)mm
Weight : Approx. 400g (0.8 lbs)

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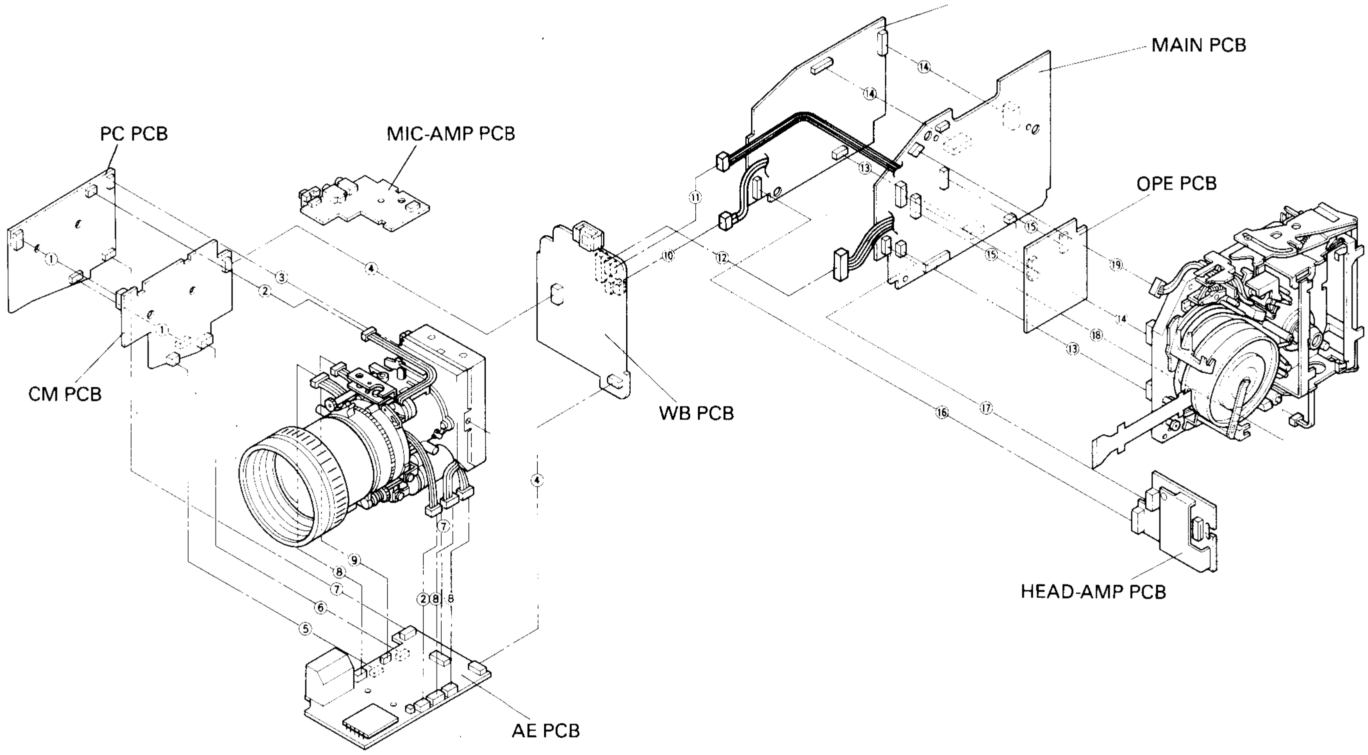
Circuit Block Diagrams

Circuit Diagrams

Connection Diagram, Extension Leads



Extension Leads No.	Mode	Connectors to be separated				
		Parts Name	Connector	Parts Name	Connector	Note
1	PCB-PCB	PC PCB	YE	CM PCB	WE	10 Pin
	PCB-PCB	PC PCB	YD	CM PCB	WD	10 Pin
2	PCB-LEAD	PC PCB	YG	IRIS MOTOR	YG	4 Pin
	PCB-LEAD	AE PCB	EV	IRIS MOTOR	EV	4 Pin
3	PCB-PCB	PC PCB	YA	SD PCB	DA	10 Pin
4	PCB-PCB	CM PCB	WL	WB PCB	FL	14 Pin
	PCB-PCB	AE PCB	EN	WD PCB	FN	14 Pin
5	PCB-PCB	CM PCB	WK	AE PCB	EK	8 Pin
6	PCB-PCB	CM PCB	WJ	AE PCB	EJ	14 Pin
7	PCB-PCB	PC PCB	YF	AE PCB	EF	16 Pin
	PCB-PCB	AE PCB	EC	SD PCB	DC	16 Pin
8	PCB-LEAD	AE PCB	ES	SENSOR UNIT	ES	6 Pin
	PCB-LEAD	AE PCB	ET	ZOOM MOTOR	ET	6 Pin
	PCB-LEAD	AE PCB	ER	FOCUS MOTOR	ER	6 Pin
9	PCB-LEAD	AE PCB	EU	ZOOM MOTOR	EC	3 Pin
10	PCB-LEAD	WB PCB	FQ	SIGNAL PCB	FQ	4 Pin
11	PCB-LEAD	WB PCB	FH	MAIN PCB	FH	5 Pin
12	PCB-LEAD	WB PCB	FB	MAIN PCB	FB	10 Pin
13	PCB-PCB	SIGNAL PCB	SK	MAIN PCB	MK	10 Pin
	PCB-PCB	MAIN PCB	MC	MDA PCB	AC	10 Pin
14	PCB-PCB	SIGNAL PCB	SG	MAIN PCB	MG	20 Pin
	PCB-PCB	SIGNAL PCB	SM	MAIN PCB	MM	20 Pin
	PCB-PCB	MAIN PCB	MA	MDA PCB	AA	20 Pin
15	PCB-PCB	MAIN PCB	MY	OPE PCB	PY	22 Pin
	PCB-PCB	MAIN PCB	MZ	OPE PCB	PZ	22 Pin
16	PCB-PCB	SIGNAL PCB	SP	HEAD-AMP PCB	HP	18 Pin
17	PCB-PCB	MAIN PCB	ME	HEAD-AMP PCB	HE	14 Pin
18	PCB-LEAD	MAIN PCB	ML	LOADING MOTOR	ML	3 Pin
19	PCB-LEAD	MAIN PCB	MD	A/C HEAD	MD	5 Pin

DISASSEMBLY

*In removing the FPC cable, be careful not to touch the exposed terminal of the connector directly as it can cause malfunction.
To remove the terminal, open the connector for FPC cable in the order shown by the arrows in Fig. 1, keep the part with exposed terminal for FPC cable connection downward, then connect in reverse order show by the arrows in Fig. 1.

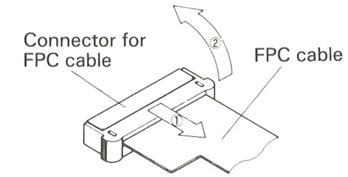


Fig. 1

1. How to Remove Viewfinder

①Disconnect the viewfinder cable from the VCR as shown in Fig. 2.
②Turn the viewfinder in the direction of the microphone.
③Slide the viewfinder in the direction of the arrow and remove it.

2. How to Remove Microphone

①Disconnect the microphone cable from the VCR as shown in Fig. 2.
②Press the PUSH button and slide the microphone in the direction of the back to remove it.

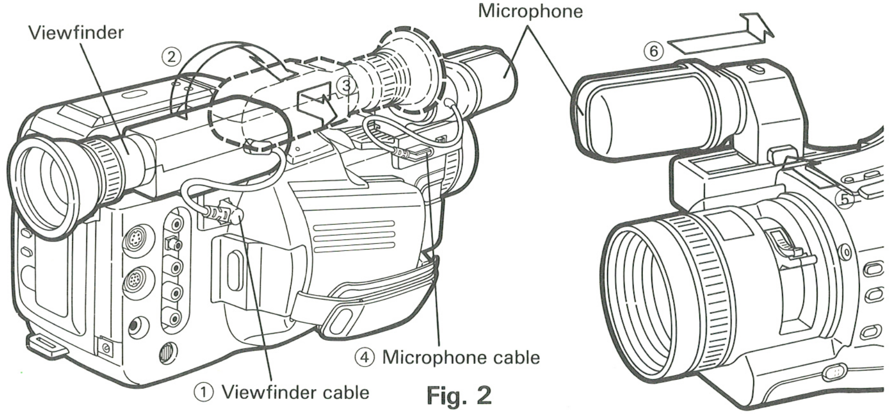
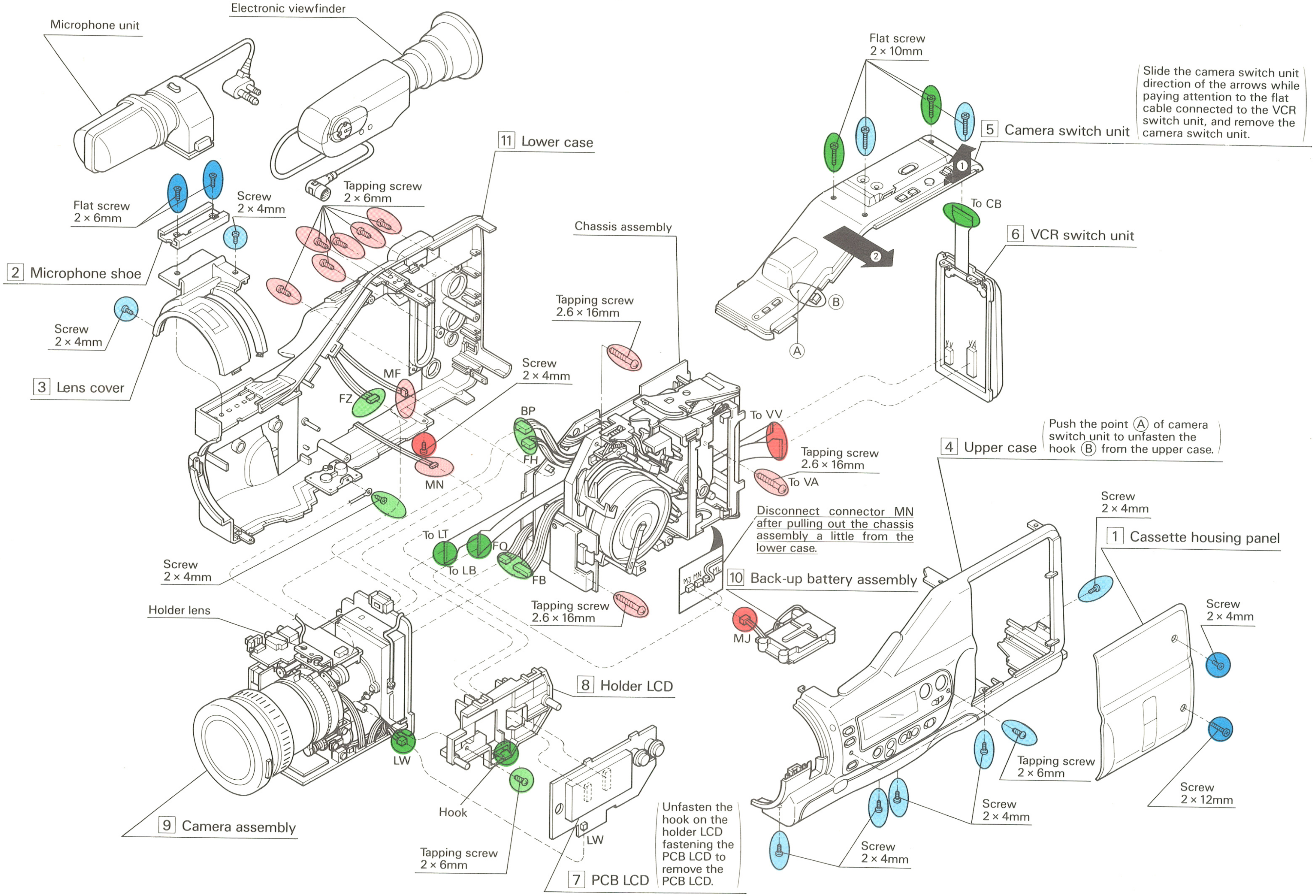


Fig. 2

3. Case (Outer) Disassembling Procedure

Order	No order of taking off units		1	2	3	4	5
Article name	Viewfinder	Microphone unit	Cassette housing panel	Microphone shoe	Lens cover	Upper case	Camera switch unit
Symbol of removed part			●	●	●	●	●
Screw and terminal to be removed	Viewfinder cable	Microphone cable PUSH button	Screws-2 pcs.	Flat screws-2 pcs.	Screws-2 pcs.	Flat screws-2 pcs. Screws-5 pcs. Tapping screws-2 pcs.	Flat screws-2 pcs. Terminal-CB

Order	6	7	8	9	10	11	
Article name	VCR switch unit	PCB LCD	Holder LCD	Camera assembly	Back-up battery assembly	Lower case	
Symbol of removed part	●	●	●	●	●	●	
Screw and terminal to be removed	Terminals-VV, VA	Hook Terminals-LW, LT, LB	Tapping screw-1 pc.	Screw-1 pc. Terminals-BP, FH, FQ, FB, FZ	Screw-1 pc. Terminal-MJ	Tapping screws-6 pcs. Tapping screws-3 pcs. Terminals-MF, MN	


Microphone unit
Electronic viewfinder
Flat screw 2 × 6mm
Screw 2 × 4mm
Tapping screw 2 × 6mm
2 Microphone shoe
Screw 2 × 4mm
3 Lens cover
11 Lower case
MF
FZ
MN
Chassis assembly
Tapping screw 2.6 × 16mm
Screw 2 × 4mm
BP
FH
To VV
Tapping screw 2.6 × 16mm
To VA
Flat screw 2 × 10mm
5 Camera switch unit
①
To CB
②
Ⓑ
Ⓐ
6 VCR switch unit
4 Upper case
Screw 2 × 4mm
1 Cassette housing panel
Screw 2 × 4mm
To LT
FQ
To LB
FB
Tapping screw 2.6 × 16mm
MJ MN ML
10 Back-up battery assembly
MJ
Screw 2 × 4mm
Holder lens
LW
8 Holder LCD
9 Camera assembly
Hook
Tapping screw 2 × 6mm
LW
7 PCB LCD
Tapping screw 2 × 6mm
Screw 2 × 4mm
Screw 2 × 4mm
Screw 2 × 12mm

Slide the camera switch unit direction of the arrows while paying attention to the flat cable connected to the VCR switch unit, and remove the camera switch unit.

Push the point Ⓐ of camera switch unit to unfasten the hook Ⓑ from the upper case.

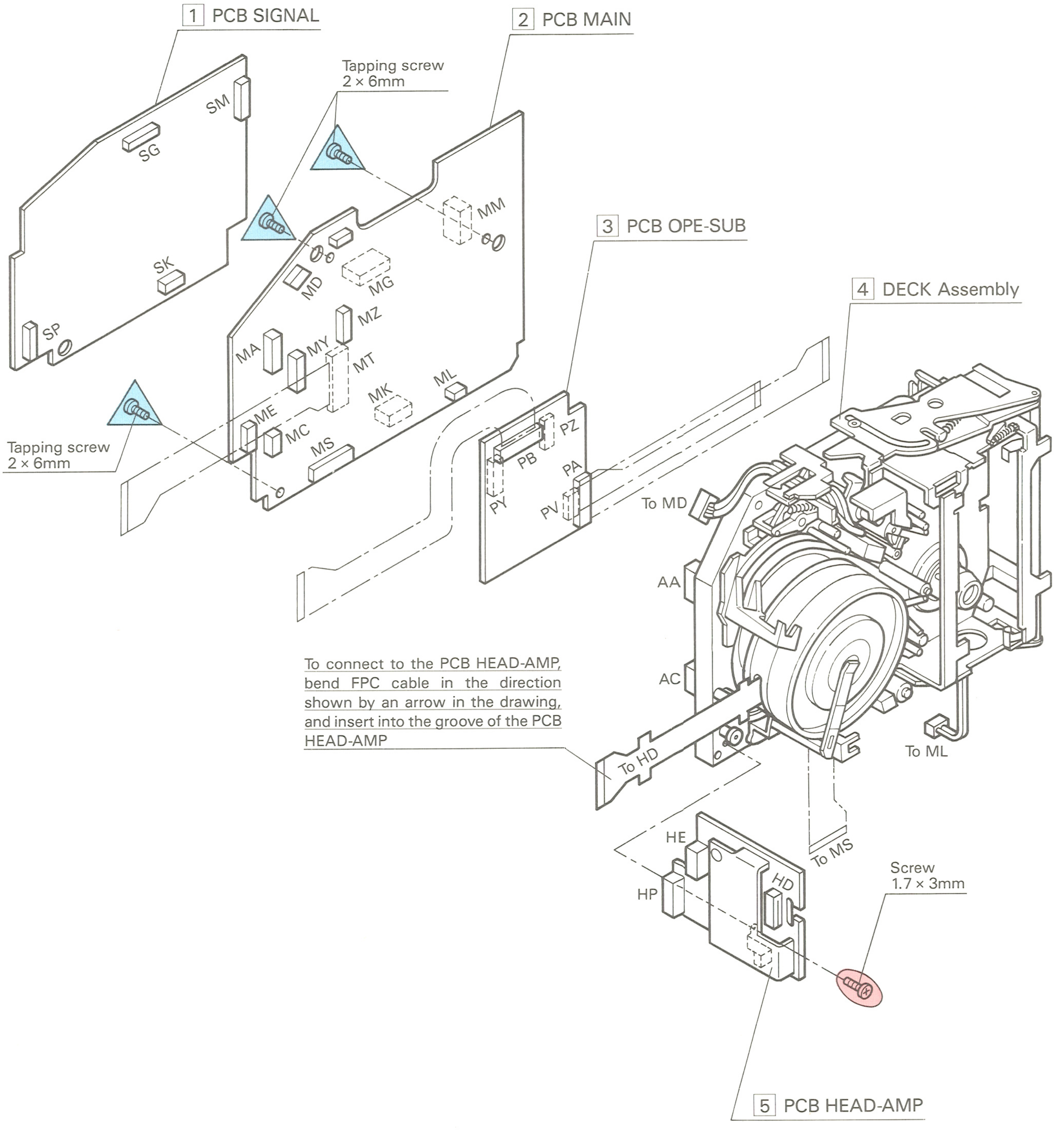
Disconnect connector MN after pulling out the chassis assembly a little from the lower case.

Unfasten the hook on the holder LCD fastening the PCB LCD to remove the PCB LCD.

HOW TO EXECUTE CIRCUIT BOARD SERVICE

1. Chassis Assembly

Order	1	2	3	4	5
Article name	PCB SIGNAL	PCB MAIN	PCB OPE-SUB	DECK Assembly	PCB HEAD-AMP
Symbol of removed part		▲			⬮
Screw and terminal to be removed	Terminals-SG, SK, SM, SP	Screws-3 pcs. Terminals-MA, MC, MD, ME, ML, MS	Terminals-PY, PZ		Screw-1 pc. Terminal-HD

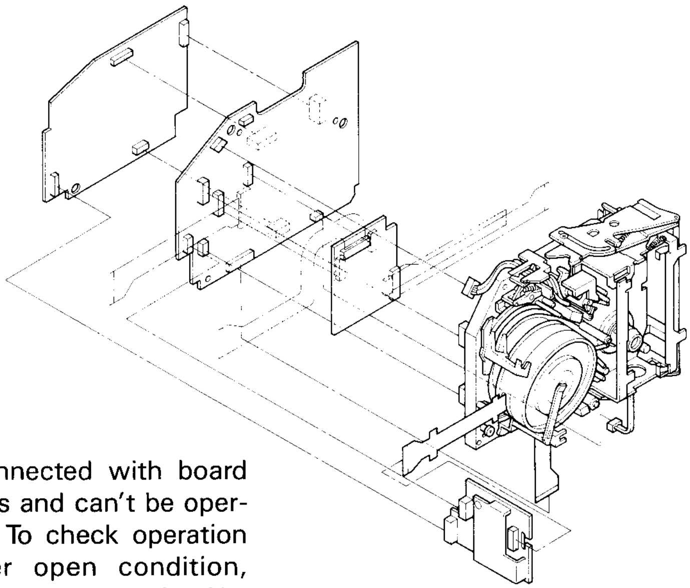


1 PCB SIGNAL
2 PCB MAIN
Tapping screw 2 × 6mm
SM
SG
SK
SP
MM
MD
MG
MZ
MA
MY
MT
ML
MK
ME
MC
MS
Tapping screw 2 × 6mm
3 PCB OPE-SUB
PZ
PB
PA
PY
PV
4 DECK Assembly
To MD
AA
AC
To HD
To ML
To MS
HE
HP
HD
Screw 1.7 × 3mm
5 PCB HEAD-AMP

To connect to the PCB HEAD-AMP, bend FPC cable in the direction shown by an arrow in the drawing, and insert into the groove of the PCB HEAD-AMP

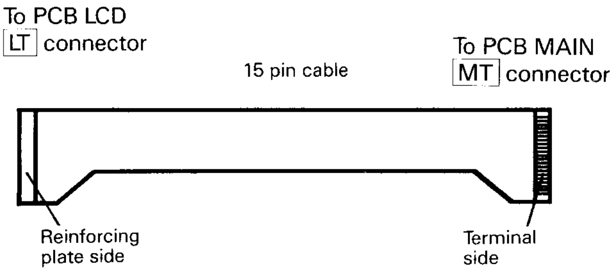
Cautionary Instructions for Chassis Assembly Replacement

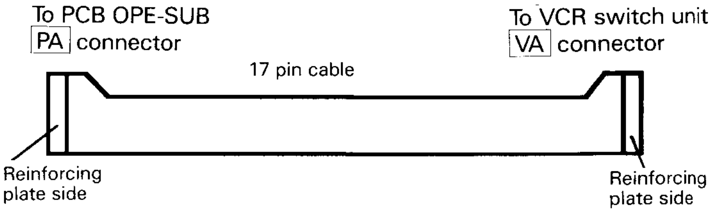
① To replace the chassis assembly disassemble the chassis assembly into individual parts according to the disassembling procedure of the casing (outer), then change the chassis.
② The PCB is connected as illustrate below. At assembly, be sure to connect to the original condition.

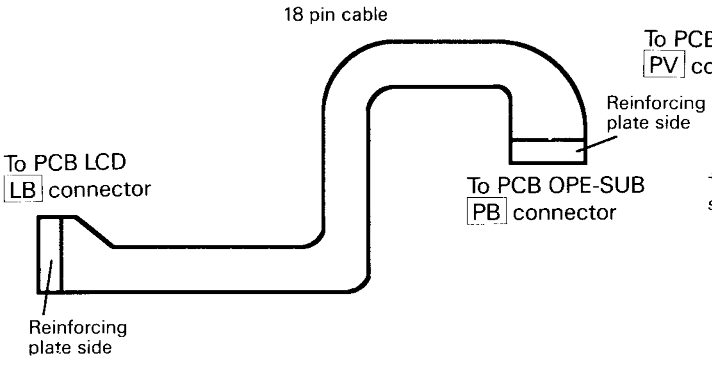


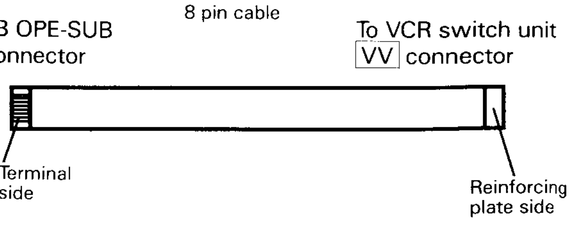
*The PCB's are connected with board to board connectors and can't be operated if kept open. To check operation with PCB's under open condition, use the extension cable kit (Jig No. 859C398030).

③ Connect the FPC cables as illustrated below. In connecting the cables, be sure not to mistake the direction.


To PCB LCD
LT connector
15 pin cable
To PCB MAIN
MT connector
Reinforcing plate side
Terminal side

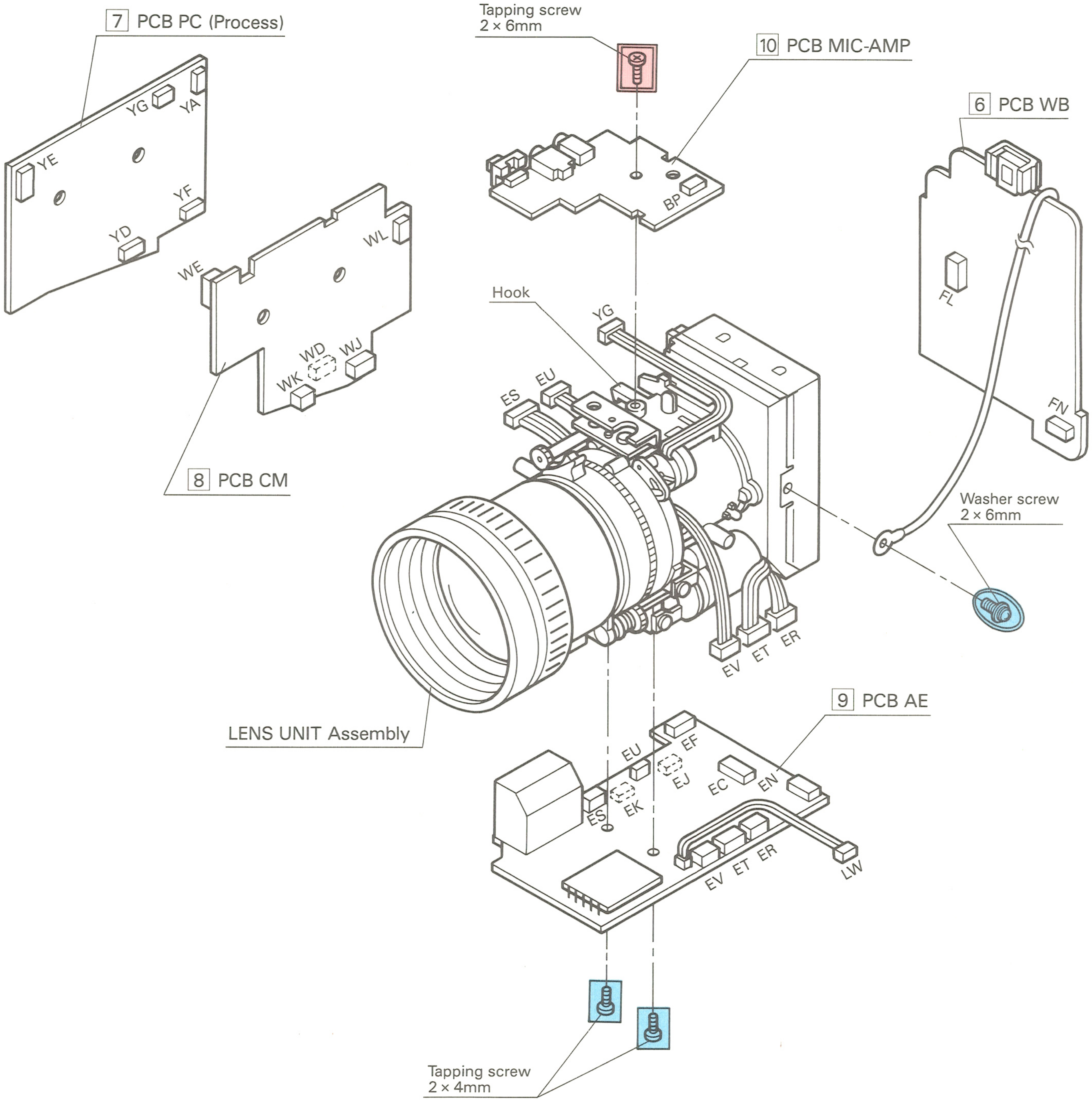

To PCB OPE-SUB
PA connector
To VCR switch unit
VA connector
17 pin cable
Reinforcing plate side
Reinforcing plate side


18 pin cable
Reinforcing plate side
To PCB LCD
LB connector
To PCB OPE-SUB
PB connector
Reinforcing plate side


To PCB OPE-SUB
PV connector
8 pin cable
To VCR switch unit
VV connector
Terminal side
Reinforcing plate side

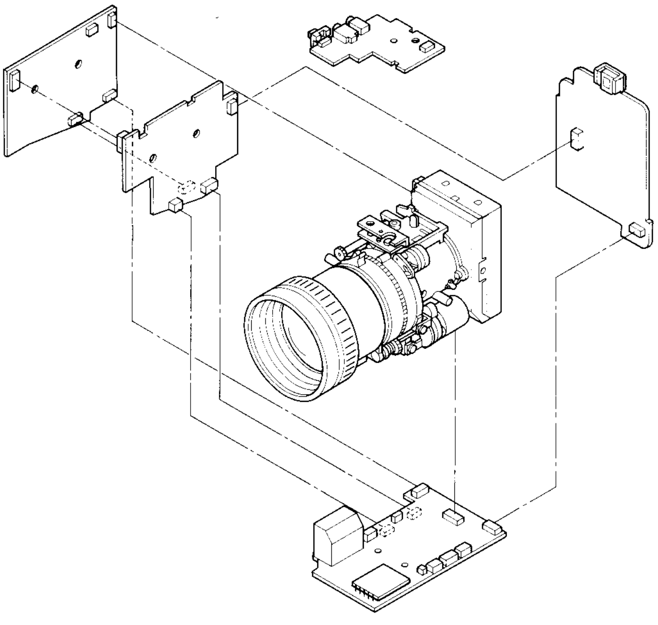
2. Camera Assembly

Order	6	7	8	9	10
Article name	PCB WB	PCB PC	PCB CM	PCB AE	PCB MIC-AMP
Symbol of removed part	🔵			🟦	🟥
Screw and terminal to be removed	Screw-1 pc. Terminals-FL, FN	Terminals-YA, YD, YE, YF, YG	Hook-1 pc. Terminals-WJ, WK	Screws-2 pcs. Terminals-EG, ER, ES, ET, EU, EV	Screw-1 pc.


7 PCB PC (Process)
YG
YA
YE
YF
YD
WE
WL
WD
WJ
WK
8 PCB CM
Tapping screw
2 × 6mm
10 PCB MIC-AMP
BP
6 PCB WB
FL
FN
Hook
YG
ES
EU
Washer screw
2 × 6mm
EV
ET
ER
LENS UNIT Assembly
9 PCB AE
EU
EF
EJ
EC
EN
ES
EK
EV
ET
ER
LW
Tapping screw
2 × 4mm

Cautionary Instructions at Camera Assembly Replacement

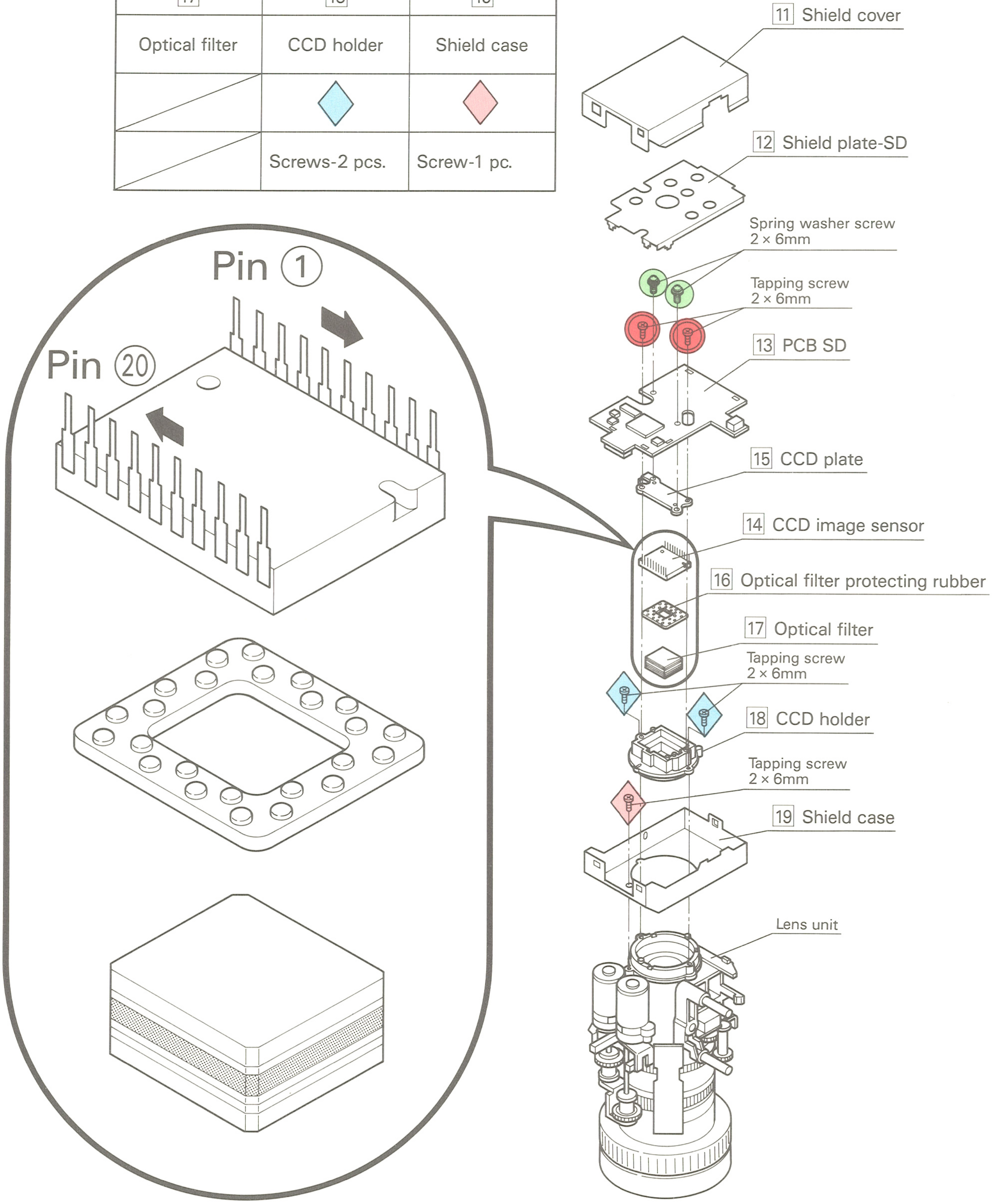
①When the camera assembly is replaced, disassemble the chassis assembly into individual parts according to the disassembling procedure of the case (outer), then proceed to replacement.
②The PCB are connected as illustrated below. Be sure to connect to the original condition.



*The PCB's are connected with board to board connectors and can't be operated if kept open. To check operation with PCB's under open condition, use the extension cable kit (Jig No. 859C398040).

3. Lens Unit Assembly

Order	11	12	13	14	15	16	17	18	19
Article name	Shield cover	Shield plate-SD	PCB SD	CCD image sensor	CCD plate	Optical filter protecting rubber	Optical filter	CCD holder	Shield case
Symbol of removed part			🔴		🟢			🔷	♦
Screw and terminal to be removed			Screws-2 pcs.		Screws-2 pcs.			Screws-2 pcs.	Screw-1 pc.



Pin ①
Pin ⑳
11 Shield cover
12 Shield plate-SD
Spring washer screw
2 × 6mm
Tapping screw
2 × 6mm
13 PCB SD
15 CCD plate
14 CCD image sensor
16 Optical filter protecting rubber
17 Optical filter
Tapping screw
2 × 6mm
18 CCD holder
Tapping screw
2 × 6mm
19 Shield case
Lens unit

Cautionary Instructions for Lens Unit Replacement

*To replace the Lens unit, disassemble the unit into individual parts according to the disassembling procedure of camera assembly stated in Section 2 of Repairing, then proceed to replacement.

1. How to Replace CCD Image Sensor

Note:
- Being a C-MOS type semi-conductor, the CCD image sensor requires close attention in particular. For replacement, be sure to earth the soldering iron and others.
- Be careful not to stain or injure the transmission glass and optical filter of the CCD image sensor. Should they be stained by finger print for instance, wipe it off with silicone paper or clean shammy.
- The transmission glass of the CCD image sensor is shipped with lens protecting seal attached. Refrain from peeling off the seal to the point immediately before assembling into the lens unit at the time of replacement.
- When the CCD image sensor is soldered onto the PCB, be careful not to apply excessive heat for a long time as the filter may be discoloured by heat in some cases.

How to Remove

① Take off the PCB SD in the order shown in the table on page 8.
② Remove 20 terminals of the CCD image sensor solder to the PCB SD, and take off the CCD image sensor.

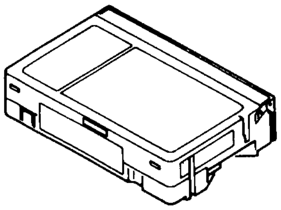
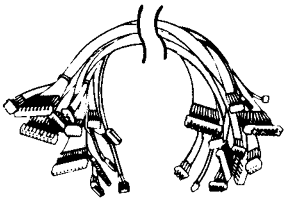
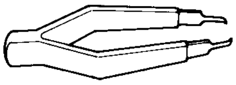
How to Attach

① Solder the CCD image sensor (20 soldering points) with the protecting seal onto the PCB SD. Be careful so as not to mistake direction of the PCB at this time.
② Peel off the protecting seal and mount the PCB SD onto the Lens Unit.

VCR UNIT CIRCUIT ADJUSTMENT

1. Jigs and Measuring Instruments Required for Adjustment of VCR

1-1. Jigs for Adjustment

Alignment tape	Extension cable kit	Pincers for mini-connectors
	859C398030	859C395030
		

1-2. Specifications of Alignment Tape

	Video signal	Audio signal	Detail of use
PM6KE2C (859C39706)	Stair step	6kHz	• Compatibility checking and adjustment • Checking drum servo circuit • Audio head azimuth adjustment (Note) Used under short-circuit condition between test point TP5B and GND.
PC1KC (859C39707)	Colour bar	1kHz	• Adjustment of video signal playback circuit • Adjustment of audio signal playback circuit (Note) Under manual condition of digital tracking • Used at the maximum level of FM output of TP2A (P.B. FM OUT) of the PCB SIGNAL.
PC (S) (859C39708)	Colour bar		• Adjustment of playback demodulation sensitivity & playback level

1-3. Others Tools and Measuring Instruments Required

① Colour monitor (Colour TV)
② Oscilloscope
③ Colour bar generator
④ Frequency counter
⑤ Full set of general tools
⑥ Audio generator
⑦ D.C. Voltmeter
⑧ Carrier checker
⑨ Screwdriver for camera adjustment
⑩ Camera dummy connector (859C397090)

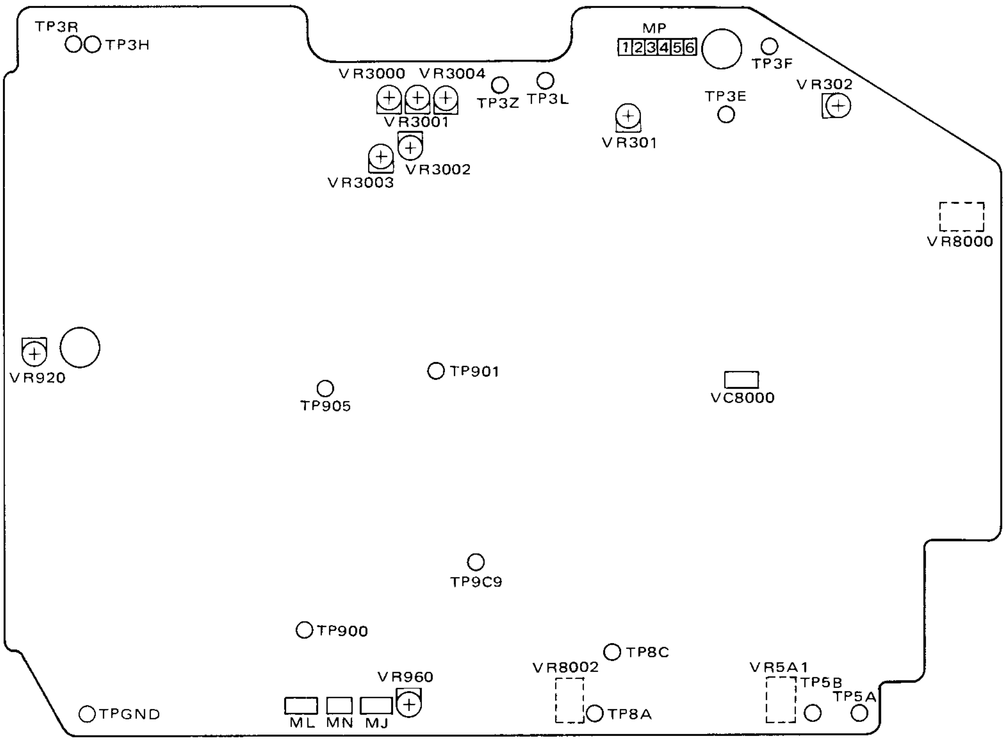
2. Prior to Adjustment

① Adjustment of VCR circuit becomes necessary, in almost all cases, at replacement of parts or the video head. Should the electrical circuit go out of order, the defective point is first found by measuring instruments, then repair and replacement are practiced before proceeding to adjustment.
Refrain from making adjustments indiscretely without detecting the point of trouble.
There are some items which require no adjustment according to trouble. In actual servicing, adjust only the items required.

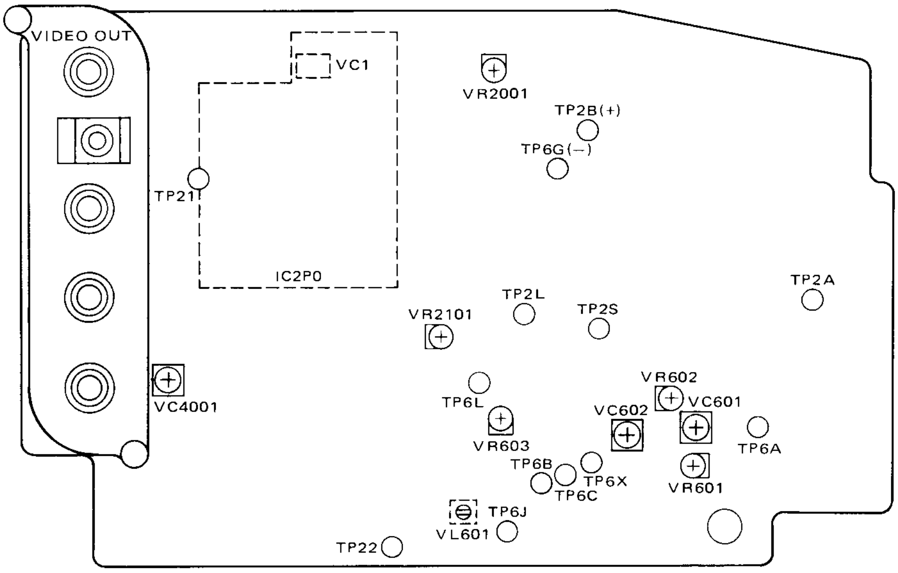
② In case of VCR section adjustment, supply video signal into HS-C50 from a video cassette recorder equipped with S out terminal (HS-E70/B70 etc.) via Camera Dummy Connector.

3. Location of Adjustment Points (VCR Section)

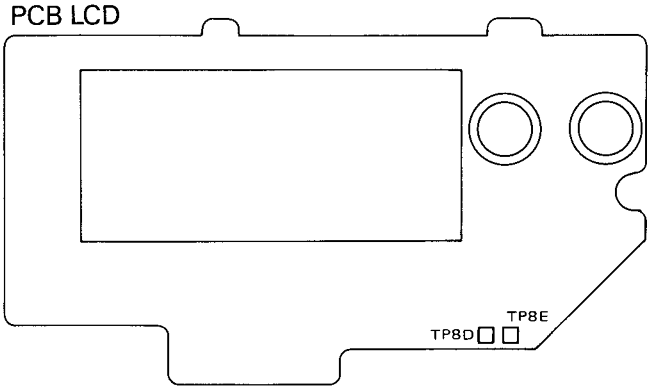
PCB MAIN


TP3R
TP3H
MP
1 2 3 4 5 6
TP3F
VR3000
VR3004
TP3Z
TP3L
TP3E
VR302
VR3001
VR301
VR3003
VR3002
VR8000
VR920
TP901
TP905
VC8000
TP9C9
TP900
TP8C
VR960
VR8002
VR5A1
TP5B
TP5A
TPGND
ML
MN
MJ
TP8A

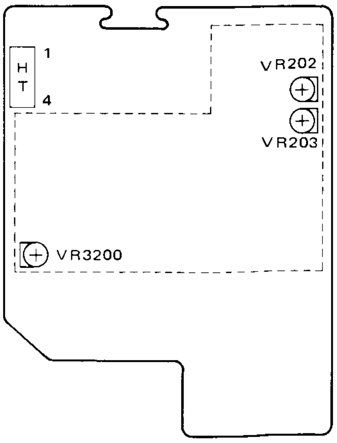
PCB SIGNAL

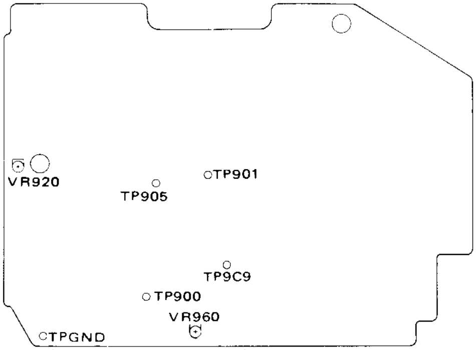
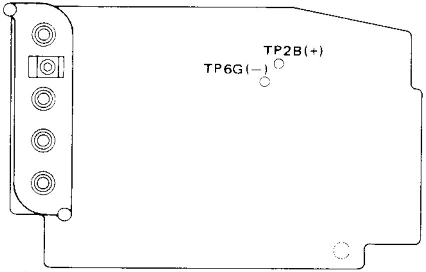

VIDEO OUT
VC1
VR2001
TP2B(+)
TP6G(−)
TP21
IC2P0
TP2A
TP2L
VR2101
TP2S
VC4001
VR602
TP6L
VC601
VC602
VR603
TP6A
TP6B
TP6X
TP6C
VR601
TP6J
VL601
TP22

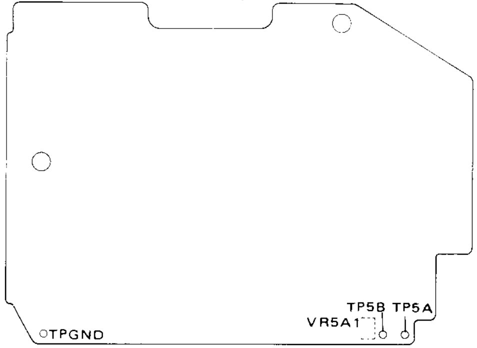
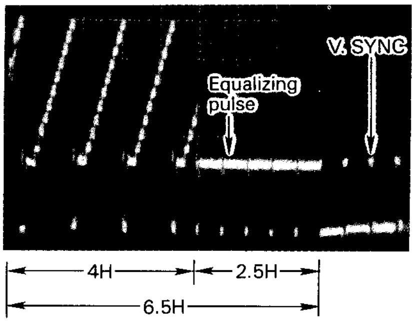
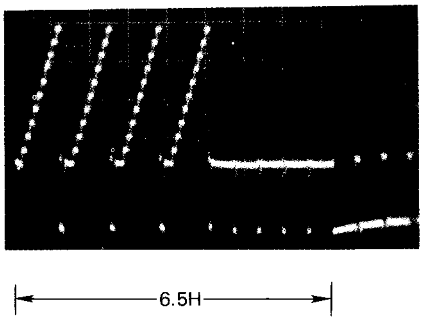
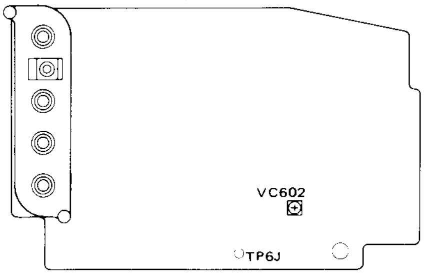
PCB LCD

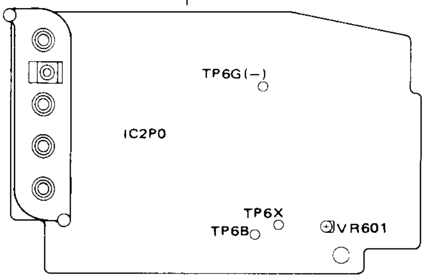
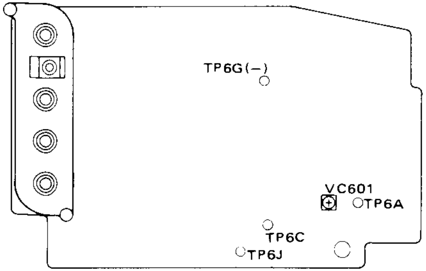
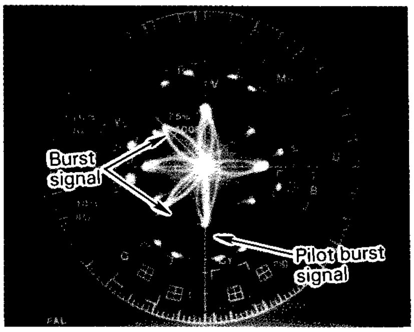


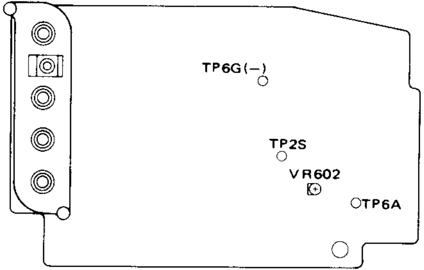
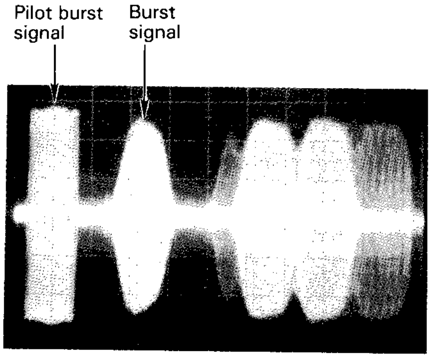
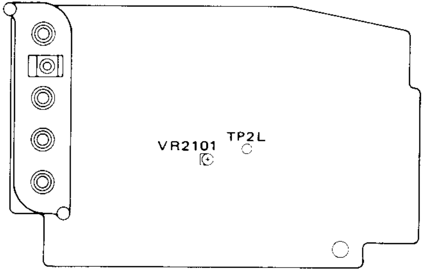
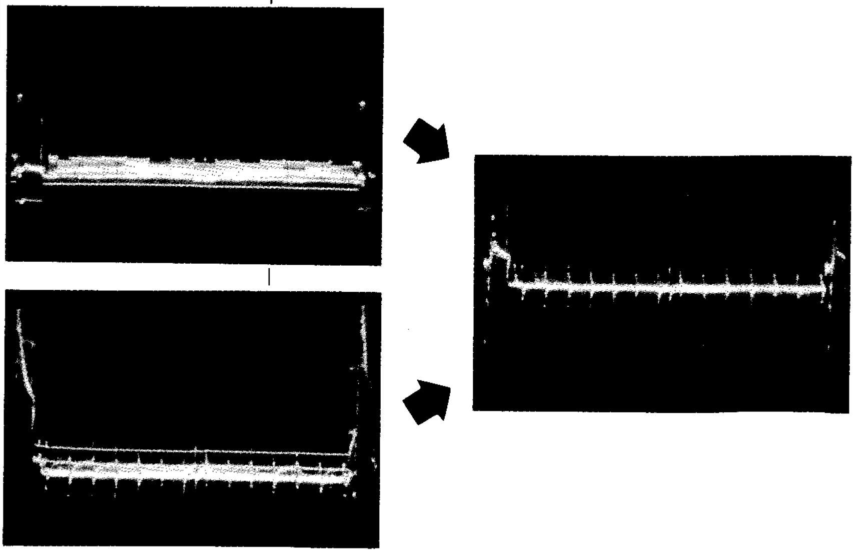
PCB HEAD AMP

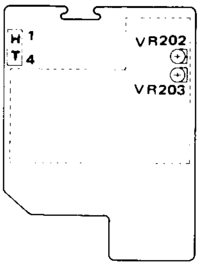
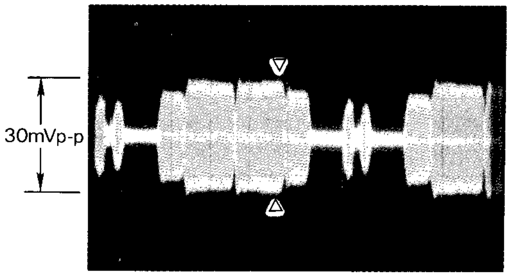
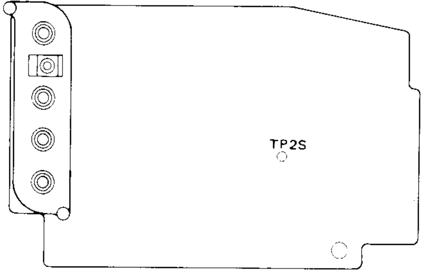
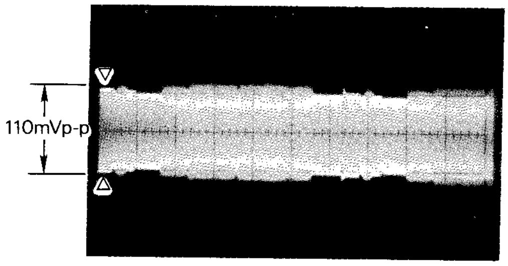
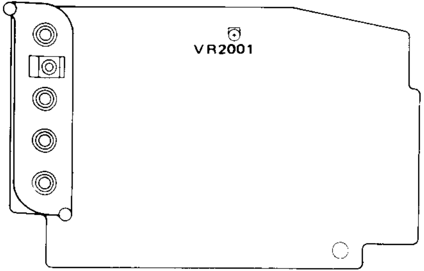
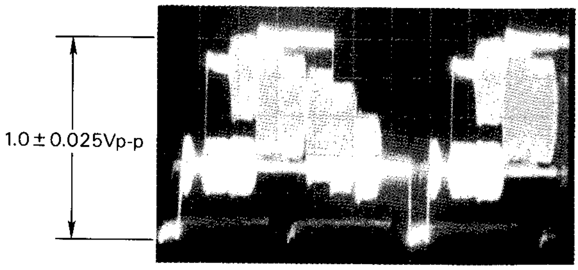

H
T
1
4
VR202
VR203
VR3200

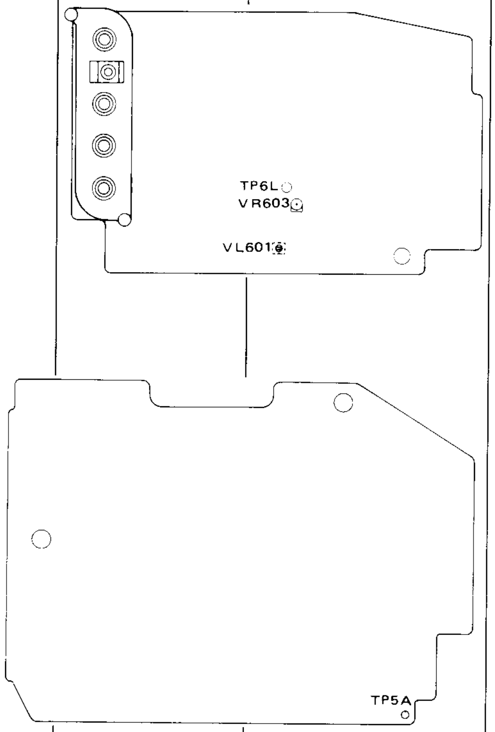
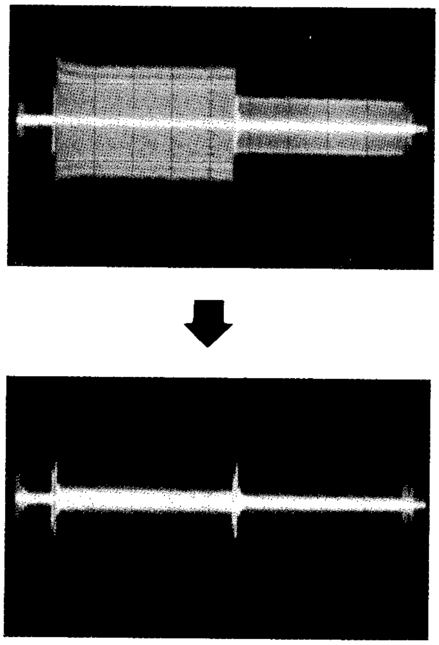
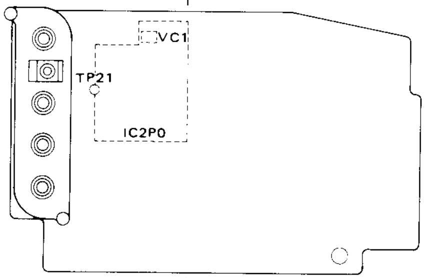
No.	ITEM	MODE	ADJ. METHOD	ADJUSTMENT PROCEDURE
			Power Circuit	
1	Power voltage 	•Stop mode	•TP900 (MAIN) •TPGND (MAIN) •TP901 (MAIN) •Digital voltmeter to TP905 (MAIN) •VR920 (MAIN) •Digital voltmeter to TP9C9 (MAIN) •VR960 (MAIN)	1. Short circuit TP900 and TPGND. 2. Short circuit TP901 and TPGND. 3. Adjust VR920 so that the voltage of TP905 is 5.20±0.05V. 4. Adjust VR960 so that the voltage of TP9C9 is 9.00±0.02V.
		•REC mode	•Digital voltmeter to TP2B (SIGNAL) and TP6G (SIGNAL) TP2B: (+) TP6G: (−)	5. Adjust VR920 so that the voltage is 4.95±0.05V.

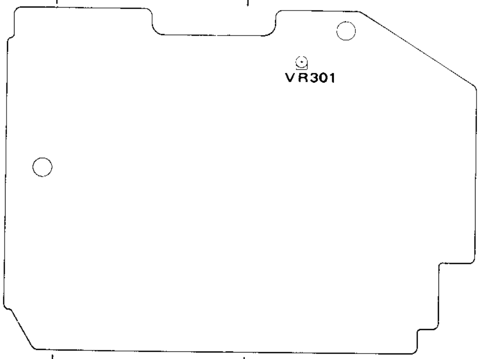
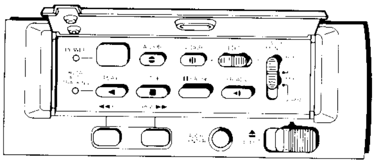
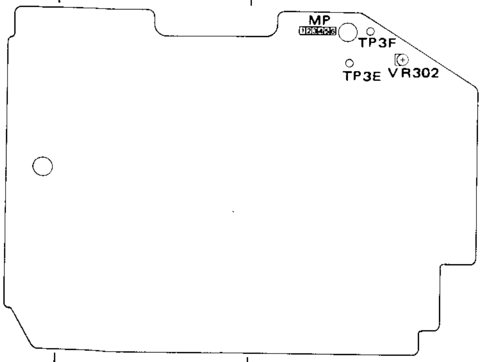
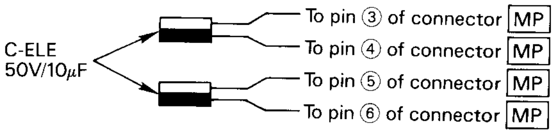
No.	ITEM	MODE	ADJ. METHOD	ADJUSTMENT PROCEDURE
		Servo Circuit		
2	Playback switching point  	•Playback Alignment tape (Stair step)	•TP5B (MAIN) •TPGND (MAIN) •Oscilloscope to VIDEO OUT socket DIV 20mV TIM 50μsec (Probe 10:1) •Oscilloscope's EXT trigger to TP5A (MAIN) •Synchronizing slope to (−) •VR5A1 (MAIN) •Synchronizing slope to (+)	1. Short circuit TP5B and TPGND. 2. Adjust VR5A1 so that the trigger point is located at 6.5±1.0H before the vertical synchronizing signal. (−) Slope  3. Check that the trigger point is located at 6.5±1.0H before the vertical synchronizing signal. (+) Slope 
		Y/C Signal Circuit		
3	Chroma fsc frequency  	•Playback Alignment tape (Colour bar)	•Frequency counter to TP6J (SIGNAL) •VC602 (SIGNAL)	1. Adjust VC602 so that the frequency of TP6J is 4.433619MHz±30Hz.

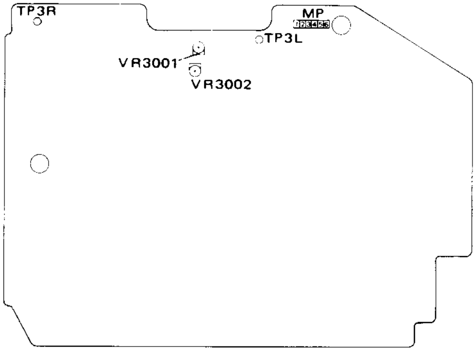
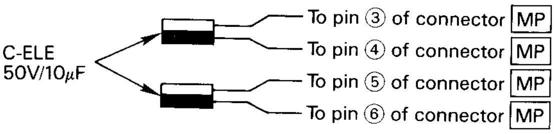
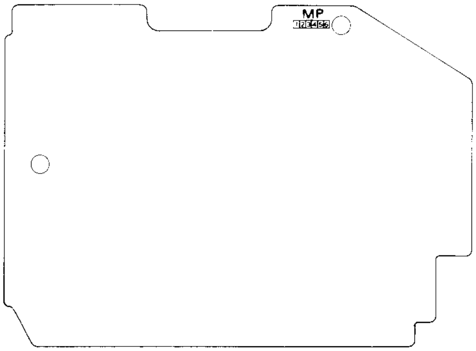
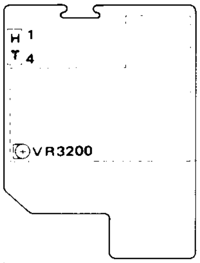
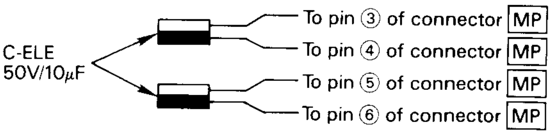
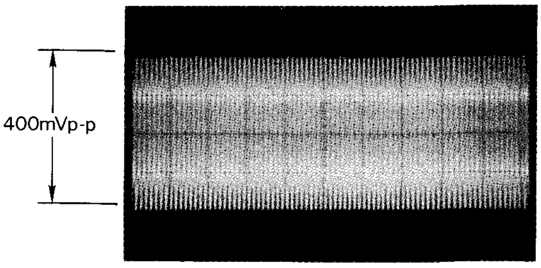
No.	ITEM	MODE	ADJ. METHOD	ADJUSTMENT PROCEDURE
4	Chroma AFC  TP6G(−) IC2P0 TP6X TP6B VR601	•REC mode without input signal	•TP6X (SIGNAL) •TP6G (SIGNAL) •Frequency counter to TP6B (SIGNAL) •VR601 (SIGNAL)	1. Disconnect connector FQ on the PCB WB of Camera assembly. 2. Short circuit TP6X and TP6G. 3. Adjust VR601 so that the frequency of TP6B is 625kHz ± 5kHz.
5	Pilot burst correlation  TP6G(−) VC601 TP6A TP6C TP6J	•Supply S-VIDEO signal (G card) to the connector FQ on the PCB SIGNAL Pin ①: Y-GND Pin ②: Y-Signal Pin ③: C-GND Pin ④: C-Signal •S-VHS REC mode	•TP6C (SIGNAL) •TP6G (SIGNAL) •Vector scope to TP6A (SIGNAL) •Vector scope's EXT REF to TP6J (SIGNAL) •VC601 (SIGNAL)	1. Short circuit TP6C and TP6G. 2. Adjust phase adjustment volume of vector scope so that the burst signal is regular position. 3. Adjust VC601 so that the pilot burst signal is located at 270° relative to U axis.  Burst signal Pilot burst signal

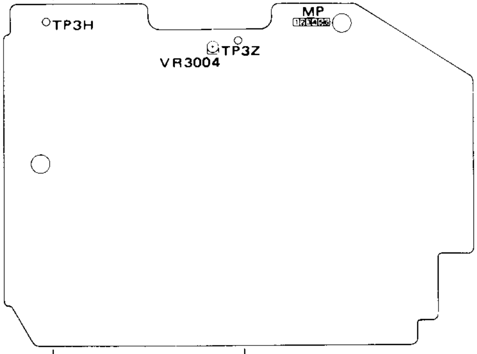
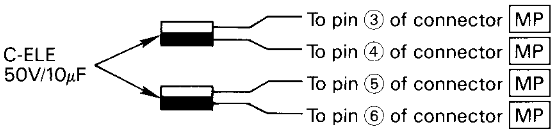
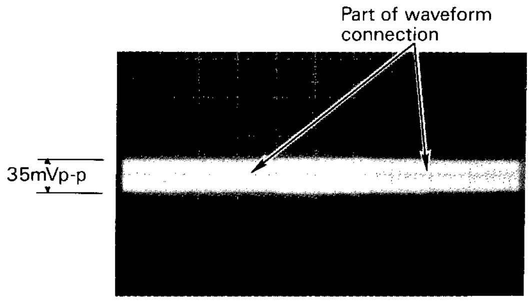
No.	ITEM	MODE	ADJ. METHOD	ADJUSTMENT PROCEDURE
6	Amplitude level of pilot burst  	•Supply S-VIDEO signal (G card) to the connector FQ on the PCB SIGNAL Pin ①: Y-GND Pin ②: Y-Signal Pin ③: C-GND Pin ④: C-Signal •S-VHS REC mode (Procedure 1) •Normal VHS REC mode (Procedure 2)	•Oscilloscope to TP6A (SIGNAL) prove GND to TP6G (SIGNAL) DIV 10mV TIM 2μsec (Probe 10:1) •Oscilloscope's EXT trigger to TP2S (SIGNAL) •VR602 (SIGNAL)	1. Adjust VR602 so that the pilot burst level is 1.1 times the normal burst signal in S-VHS mode. 2. Check that the pilot burst signal disappears in Normal VHS mode. 
7	Y-NR  	•Supply S-VIDEO signal (G card) to the connector FQ on the PCB SIGNAL Pin ①: Y-GND Pin ②: Y-Signal Pin ③: C-GND Pin ④: C-Signal •Normal VHS REC mode	•Oscilloscope to TP2L (SIGNAL) DIV TIM 2msec (Probe 10:1) •VR2101 (SIGNAL)	1. Turn the power off and on, and activate the normal VHS REC function only. 2. Adjust VR2101 so that the video signal disappears. Note: During this adjustment, don't change the signal contents being supplyed, otherwise the precise adjustment cannot be excuted. 

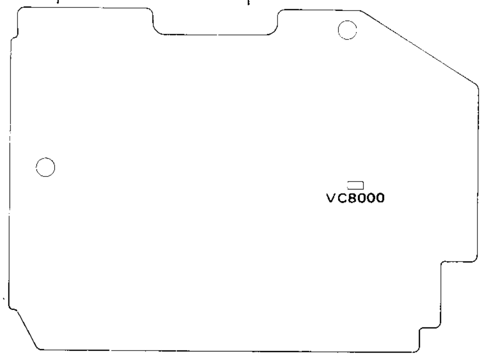
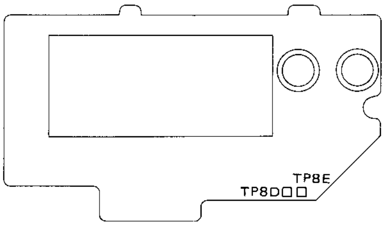
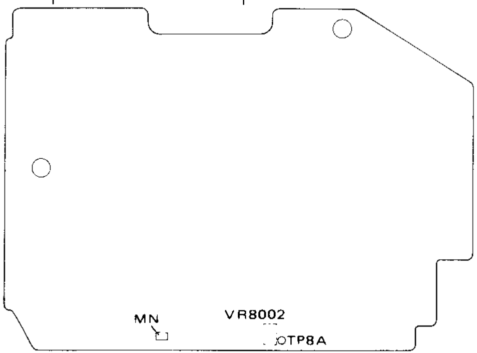
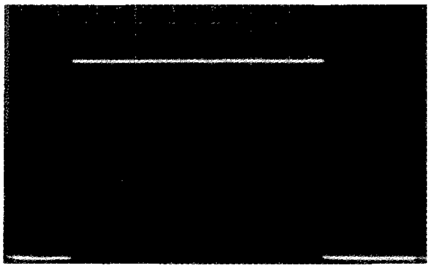
No.	ITEM	MODE	ADJ. METHOD	ADJUSTMENT PROCEDURE
8	Y/C REC level  	•Supply S-VIDEO signal (Colour bar) to the connector FQ on the PCB SIGNAL Pin ①: Y-GND Pin ②: Y-Signal Pin ③: C-GND Pin ④: C-Signal •S-VHS LP REC mode	•Oscilloscope to connector HT Signal: Pin ② GND: Pin ① DIV 10mV TIM 10μsec (Probe 1:1) •Oscilloscope's EXT trigger to TP2S (SIGNAL) •VR202 (HEAD AMP) •VR203 (HEAD AMP)	1. Turn VR202 so that the FM waveform is minimum. 2. Adjust VR203 so that the chroma signal level of red colour signal is 30mVp-p. 
	 	•Normal VHS LP REC mode	•VR202 (HEAD AMP) DIV 5mV TIM 10μsec (Probe 10:1)	3. Adjust VR202 so that the amplitude level of horizontal SYNC is 110mVp-p. 
9	Demodulation sensitivity/ Playback level  	•Playback Alignment tape (S-VHS Colour bar)	•Oscilloscope to VIDEO OUT socket DIV 20mV TIM 10μsec (Probe 10:1) •VR2001 (SIGNAL)	1. Terminate VIDEO OUT socket using a 75Ω resistor. 2. Adjust VR2001 so that the video signal is 1.0 ± 0.025Vp-p. 

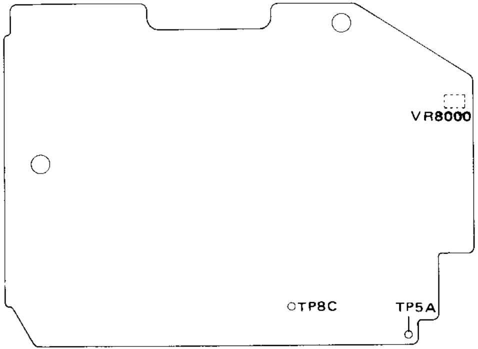
No.	ITEM	MODE	ADJ. METHOD	ADJUSTMENT PROCEDURE
10	C-NR	•Playback Alignment tape (VHS Colour bar)  	•Oscilloscope to TP6L (SIGNAL) DIV 10mV TIM 2msec (Probe 10:1) •Oscilloscope's EXT trigger to TP5A (MAIN) •VR603 (SIGNAL) •VL601 (SIGNAL)	1. Alternate adjustments in the following sequence: VR603, VL601, VR603 so that the chroma leak signal is minimum. 
11	Telop-4fsc	•Stop mode without input signal  	•Frequency counter to TP21 (SIGNAL) •VC1 on the IC2P0 (SIGNAL)	1. Disconnect connector FQ on the PCB WB of Camera assembly. 2. Adjust VC1 so that the frequency is 17.73448MHz ± 100Hz.

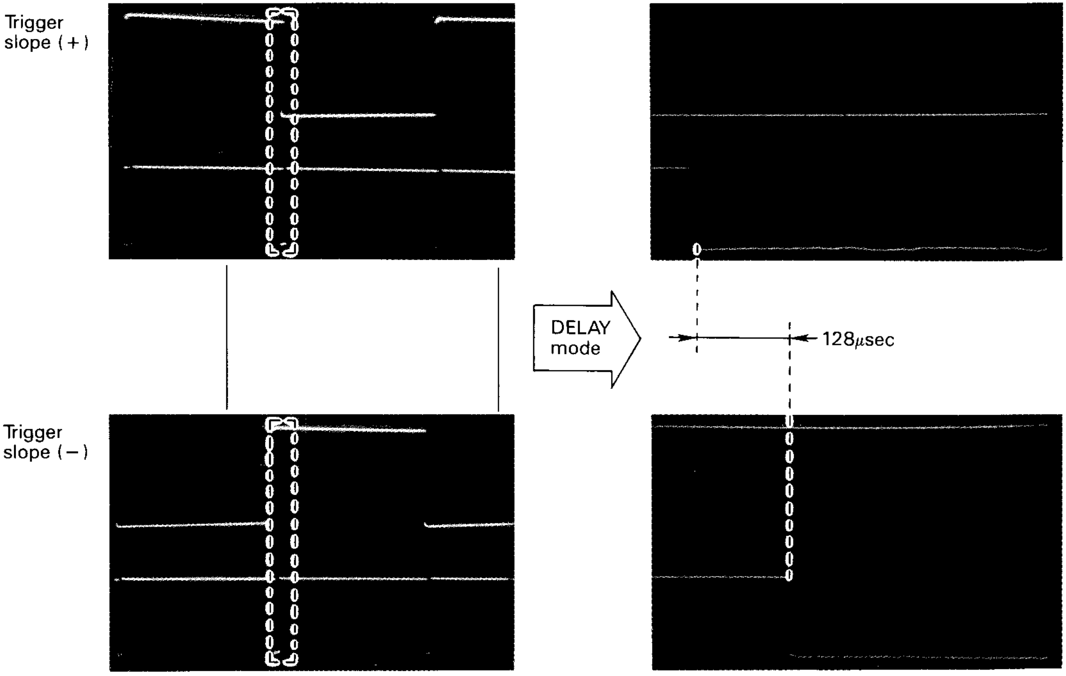
No.	ITEM	MODE	ADJ. METHOD	ADJUSTMENT PROCEDURE
Normal Audio Circuit				
12	Playback audio level 	•Playback Alignment tape (1kHz, 0dB audio)	•AC voltmeter to AUDIO OUT sockets (L-CH and R-CH) •VR301 (MAIN)	1. Set the AUDIO MONITOR switch to NORM.  2. Adjust VR301 so that the audio output level is −6dBs. (388mV.r.m.s): 0dBs = 1mW 600Ω 0.775V.r.m.s input impedance = 47kΩ. Note: Confirm that the level fluctuation is less than ±1dB. If level fluctuation is over ±1dB then check the AC head slant.
13	Audio bias level  MP TP3F TP3E VR302	•SP REC mode	•AC voltmeter to TP3E (MAIN) and TP3F (MAIN) through a high pass filter Note: Be careful that the AC voltmeter housing does not touch the VCR chassis. •VR302 (MAIN)	1. Disconnect connector MP on the PCB MAIN. 2. Connect two capacitors to the connector MP on the PCB MAIN.  C-ELE 50V/10μF To pin ③ of connector MP To pin ④ of connector MP To pin ⑤ of connector MP To pin ⑥ of connector MP 3. Confirm that the monitor TV etc. does not affect the indication of the AC voltmeter and then adjust VR302 for a level of 2.4V.r.m.s. Note: Do not set the VCR to PLAY mode with the AC voltmeter connected. (The audio amplifier will be over loaded.)

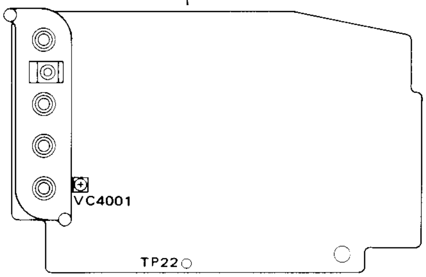
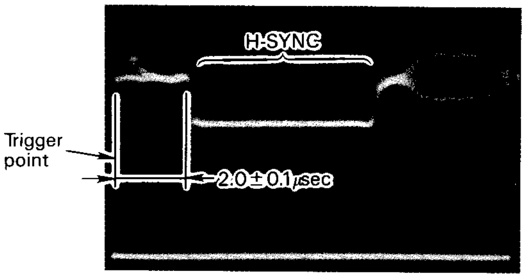
No.	ITEM	MODE	ADJ. METHOD	ADJUSTMENT PROCEDURE
Hi-Fi Audio Circuit				
14	OSC Frequency  TP3R MP TP3L VR3001 VR3002	•SP REC mode without input signal	•Frequency counter to TP3L (MAIN) •VR3001 (MAIN) •Frequency counter to TP3R (MAIN) •VR3002 (MAIN)	1. Set the AUDIO MONITOR switch to Hi-Fi. 2. Disconnect connector MP on the PCB MAIN. 3. Connect two capacitors to the connector MP on the PCB MAIN.  C-ELE 50V/10μF To pin ③ of connector MP To pin ④ of connector MP To pin ⑤ of connector MP To pin ⑥ of connector MP 4. Adjust VR3001 so that the frequency at TP3L is 1.400MHz ± 3kHz. 5. Adjust VR3002 so that the frequency at TP3R is 1.800MHz ± 3kHz.
15	FM Record level   H 1 T 4 VR3200	•Normal VHS REC mode without input signal	•Oscilloscope to connector HT (HEAD AMP) Signal: Pin ④ GND: Pin ③ DIV 10mV TIM 20μsec (Probe 10:1) •VR3200 (HEAD AMP)	1. Set the AUDIO MONITOR switch to Hi-Fi. 2. Disconnect connector MP on the PCB MAIN. 3. Connect two capacitors to the connector MP on the PCB MAIN.  C-ELE 50V/10μF To pin ③ of connector MP To pin ④ of connector MP To pin ⑤ of connector MP To pin ⑥ of connector MP 4. Adjust VR3200 so that the amplitude level is 400mVp-p. 

No.	ITEM	MODE	ADJ. METHOD	ADJUSTMENT PROCEDURE
16	DOP Level  TP3H MP TP3Z VR3004	•Supply S-VIDEO signal (Colour bar) to the connector SQ on the PCB SIGNAL Pin ①: Y-GND Pin ②: Y-Signal Pin ③: C-GND Pin ④: C-Signal •Playback self recorded tape (VHS SP mode)	•Oscilloscope to TP3Z (MAIN) probe GND to shield cover of PCB HEAD AMP DIV 5mV TIM 5msec (Probe 10:1) •Oscilloscope's EXT trigger to TP3H (MAIN) •VR3004 (MAIN)	1. Set the AUDIO MONITOR switch to Hi-Fi. 2. Disconnect connector MP on the PCB MAIN. 3. Connect two capacitors to the connector MP on the PCB MAIN.  C-ELE 50V/10µF To pin ③ of connector MP To pin ④ of connector MP To pin ⑤ of connector MP To pin ⑥ of connector MP 4. Adjust VR3004 so that the part of minimum amplitude is 35mVp-p except the part of waveform connection. If there are any level difference between CH-1 and CH-2, then adjust the waveform of the low level CH.  Part of waveform connection 35mVp-p

No.	ITEM	MODE	ADJ. METHOD	ADJUSTMENT PROCEDURE
			Operation	
17	Focusing area position  	•Stop mode •Indicate the focusing area	•VC8000 (MAIN)	1. While watching view finder, adjust VC8000 so that the focusing area is in the centre of the view finder.
18	Battery detection circuit   	•Eject and Power off mode •Supply 8.8± 0.05V to the connector $\boxed{MN}$	•TP8D (LCD) •TP8E (LCD) •DC Voltmeter to connector $\boxed{MN}$ (MAIN) Pin ①: (−) Pin ②: (+) •Oscilloscope to TP8A (MAIN) DIV 1V TIM 10msec (DC Range) •VR8002 (MAIN)	1. Short circuit TP8D and TP8E. 2. Supply D.C 8.8±0.05V to the connector $\boxed{MN}$. 3. Power on. 4. Adjust VR8002 so that the oscillation condition immediately before changing from high level to low level. 

No.	ITEM	MODE	ADJ. METHOD	ADJUSTMENT PROCEDURE
19	Still jitter  	•Playback SP self recorded tape	•Oscilloscope's CH1 to TP5A (MAIN) CH2 to TP8C (MAIN) DIV 0.2V TIM 5msec (Probe 10:1) •Set the TRIG. SOURCE SW of the oscilloscope to CH1 •Synchronizing slope to (+) •Synchronizing slope to (−) •VR8000 (MAIN)	1. Active the still function and adjust VR4S0 (STILL ADJUST) to eliminate picture jitter. 2. Set the synchronizing slope of the oscilloscope to plus (+). 3. Set the horizontal display switch of oscilloscope to DELAY mode and monitor the waveform in the area of the falling edge at CH1. (TIM 50μsec) 4. Set the DELAY TIME of the oscilloscope until falling edge of waveform at CH2 coincide with second vertical scale on the left of the oscilloscope. 5. Set the synchronizing slope of the oscilloscope to minus (−). 6. Adjust VR8000 so that the time difference between the second vertical scale on the left of the oscilloscope and the falling edge of waveform at CH2 is 128μsec as shown below.

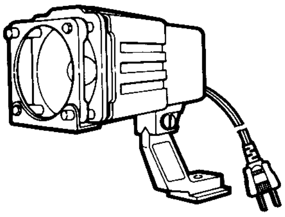
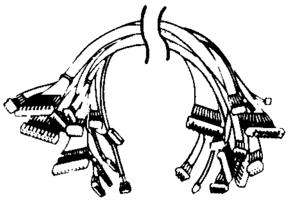
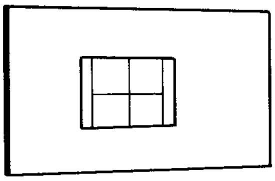
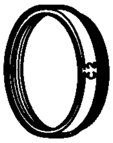
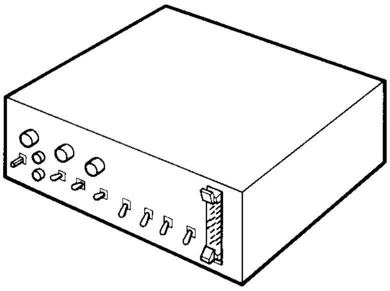
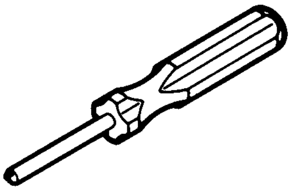
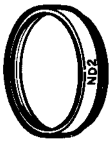


No.	ITEM	MODE	ADJ. METHOD	ADJUSTMENT PROCEDURE
Super impose Circuit				
20	Criterion clock frequency	•Supply S-VIDEO signal to the connector SQ on the PCB SIGNAL Pin ①: Y-GND Pin ②: Y-Signal Pin ③: C-GND Pin ④: C-Signal •Title display mode  	•Oscilloscope's CH1 to VIDEO OUT socket and CH2 to TP22 (SIGNAL) DIV 20mV TIM 1μsec (Probe 10:1) •Set the TRIG. SOURCE SW of the oscilloscope to CH2 •Synchronizing slope to (−) •VC4001 (SIGNAL)	Perform Y/C circuit adjustment before this adjustment. 1. Adjust VC4001 so that the time difference between the trigger point and the falling edge of waveform at CH1 is 2.0±0.1μsec. 

CAMERA UNIT CIRCUIT ADJUSTMENT

1. Jigs and Measuring Instruments Required for Camera Unit Adjustment

1-1. Jigs for Adjustment

Halogen light (3000 ± 50°K)	Extension cable kit 859C398030 859C398040	Colour chart 859C39704 ○ Reflection type
		
Colour temperature conversion filter (49mm)	Y/C MIX adapter 859C398020	Back focus adjustment screwdriver (u) 859C39700
 C2..... 859C36108 C8..... 859C36200 (2 sheets are required) C12 ... 859C36107		
Dark conversion filter (49mm)		
 ND2 .. 859C36204		

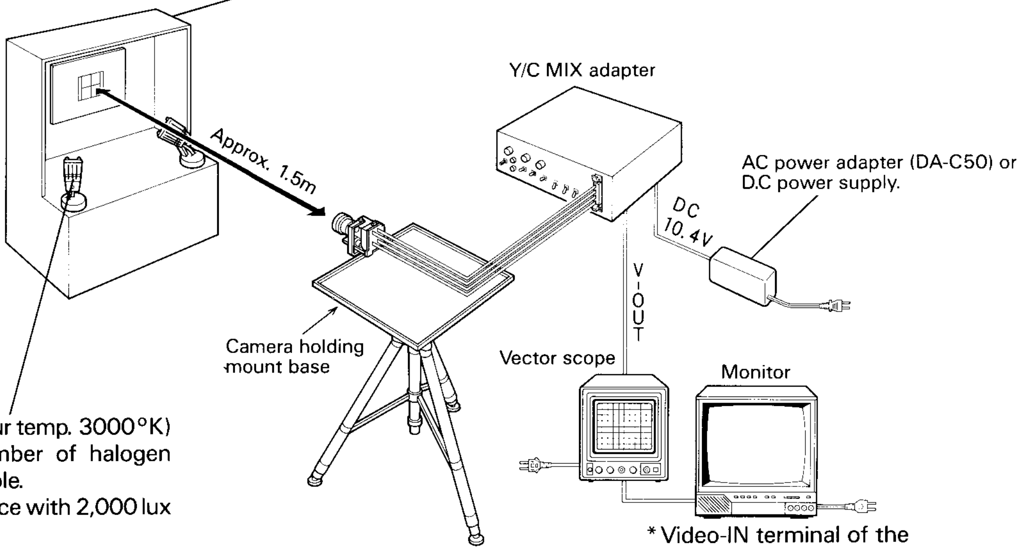
1-2. Other Measuring Instruments Required

- ○ Oscilloscope
- ○ Vector scope
- ○ Colour monitor (Colour TV)
- ○ Illuminance meter
- ○ Digital voltmeter

2. Standard Connection of Camera Unit at Adjustment

2-1. When Y/C MIX Adapter is Used

Prepare a box in a manner that the chart isn't exposed to any other light than from halogen lamp (such as sun light on fluorescent lamp light).


Approx. 1.5m
Y/C MIX adapter
AC power adapter (DA-C50) or D.C power supply.
DC 10.4V
V-OUT
Camera holding mount base
Vector scope
Monitor

Halogen lamp (Colour temp. 3000°K)
*Two or more number of halogen lamps are preferable.
Radiate chart surface with 2,000 lux or more.

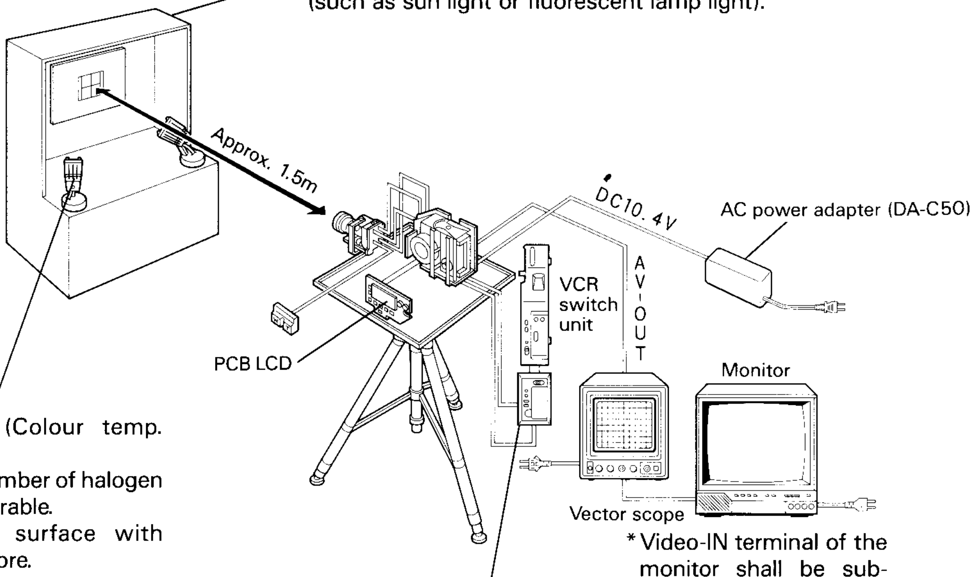
*Separate the camera unit from the deck unit, and connect FB, FH, FZ and FQ connectors to the Y/C MIX adapter.

*Video-IN terminal of the monitor shall be subjected to 75Ω termination.

2-2. When No Y/C MIX Adapter is Used

*Make sure if VCR unit adjustment is completed.

Prepare a box in a manner that the chart isn't exposed to any other light than from halogen lamp (such as sun light or fluorescent lamp light).


Approx. 1.5m
DC10.4V
AC power adapter (DA-C50)
VCR switch unit
AV-OUT
PCB LCD
Monitor
Vector scope
Camera switch unit

Halogen lamp (Colour temp. 3000°K)
*Two or more number of halogen lamps are preferable.
Radiate chart surface with 2,000 lux or more.

*Video-IN terminal of the monitor shall be subjected to 75Ω termination.

3. Preparation before Adjustment and Check Items

3-1. Prior to Adjustment

In almost all cases, it becomes necessary to adjust the electrical circuit when any electrical part is replaced.
At any trouble of the electrical circuit, be sure to detect the point of trouble using measuring instruments, perform repair or replacement, then proceed to adjustment.
Refrain from making any adjustment, indiscretely without locating the point of trouble.
There are some items which do not requires adjustment depending on kind of trouble. In actual servicing, adjust the required items only.

3-2. Preparation and Check Items

1. Unless otherwise indicated in particular, set the camera unit at the following mode at the time of adjustment.

Shutter	Standard (1/50 sec.)
Focus	Manual (Just in focus)
Iris (ALC Switching)	Manual (Click position) * Set at AUTO when Y/C MIX adapter is used
White balance	💡 3,000°K (INDOOR)

2. As the illumination devices for the chart, be sure to use the type of 3,000°K colour temperature, and set the device so that illuminance of about 2,000 lux is kept on the chart face. Uneven illuminance on the chart face inversely affects adjustment. Install the illumination device so that the chart face is illuminated evenly.
   (Light source of two or more lamps is preferable.)
3. Adjustment related to white balance is affected by the light falling onto the white balance sensor.
   Be sure to attach the diffusion plate (take off the camera switch unit and attach with adhesive tape) to the front side of the white balance sensor. Also be careful so that any other light than those from the halogen lamp, sun light or fluorescent lamp light for example, is not allowed into the sensor.
4. For adjusting the camera unit, refrain from using any extension cable (opening the PCB) as far as possible.

3-3. Camera Unit Adjusting Procedure

The following adjustment procedure is in the order required for adjusting all the potentiometers of the camera unit. Some items, therefore, need not be adjusted depending on kind of repair. Perform adjustment of the required items only according to kind of servicing.

Optical Focus Adjustment

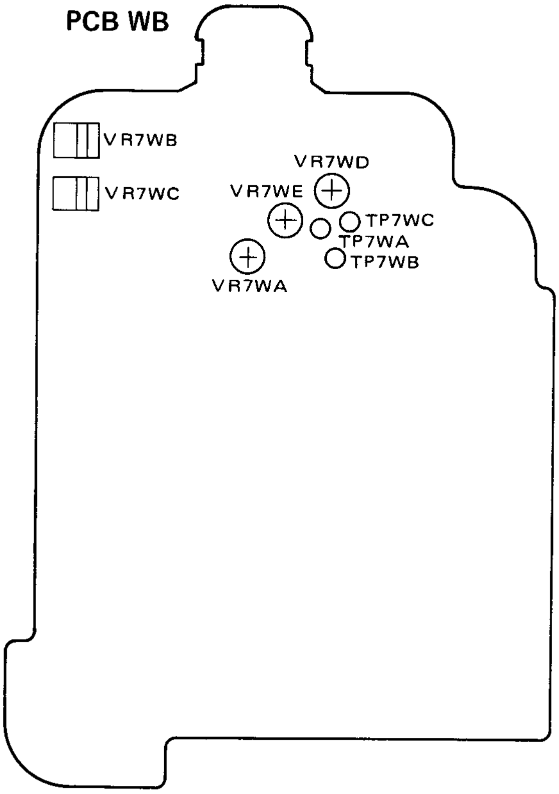
1. Back focus adjustment
2. Horizontal & zoom tracking adjustment

Electrical Adjustment

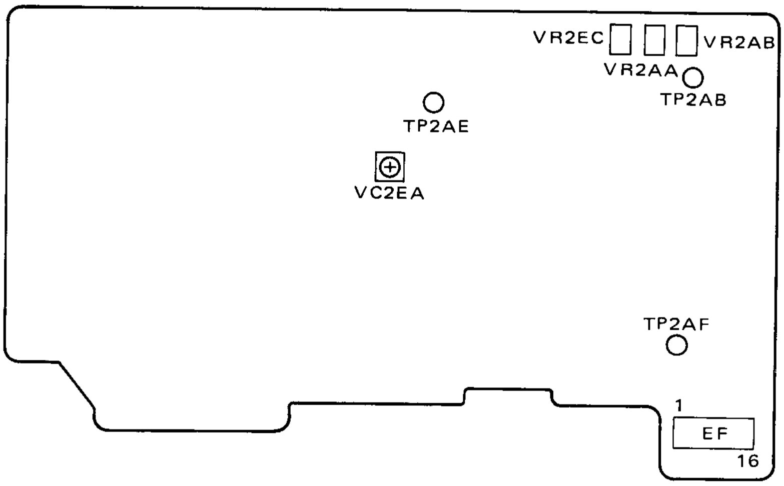
- Sensor drive
  1. Adjustment of 28MHz
  2. Substrate voltage adjustment
  3. 4fsc adjustment
- Auto W/B
  4. Colour burst signal adjustment
  5. LL level adjustment
  6. R gain, R offset adjustment
  7. B gain, B offset adjustment
- Y system
  8. OB offset adjustment
  9. ALC (Iris) adjustment
  10. APL adjustment
  11. DCC AMP gain adjustment
  12. Y signal level adjustment
- Auto WB system
  13. R-Y, B-Y offset adjustment
  14. C (Carrier), fH/2 offset adjustment
  15. R, B offset adjustment
  16. R, B WB adjustment
- C system
  17. DCC AMP adjustment
  18. B-Y gain adjustment
  19. R-Y gain adjustment
  20. Check and adjustment of chroma angle and gain

4. Location of Adjustment Points (Camera Section)

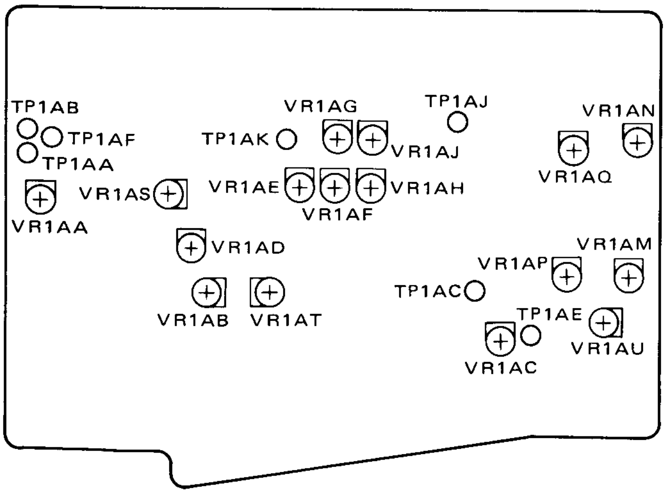
PCB WB


VR7WB
VR7WC
VR7WD
VR7WE
TP7WC
TP7WA
TP7WB
VR7WA

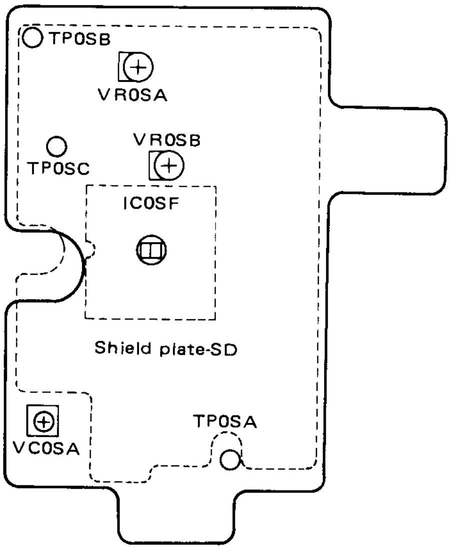
PCB AE


VR2EC
VR2AB
VR2AA
TP2AB
TP2AE
VC2EA
TP2AF
1
EF
16

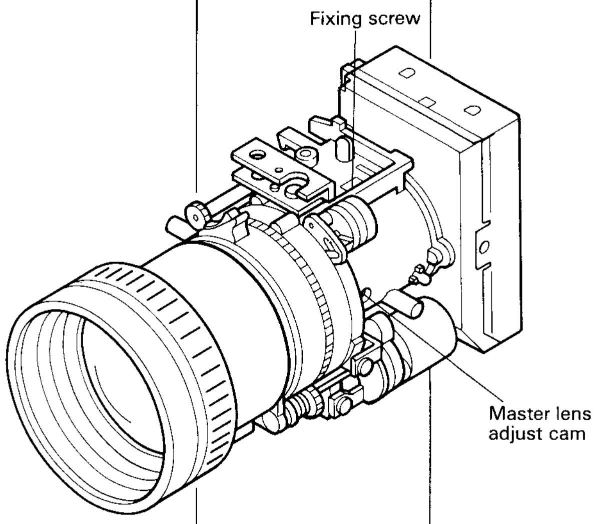
PCB PC

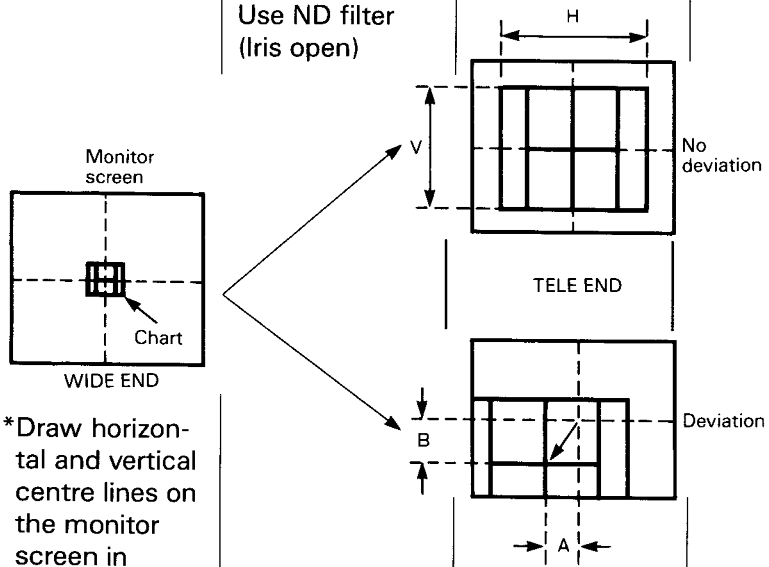
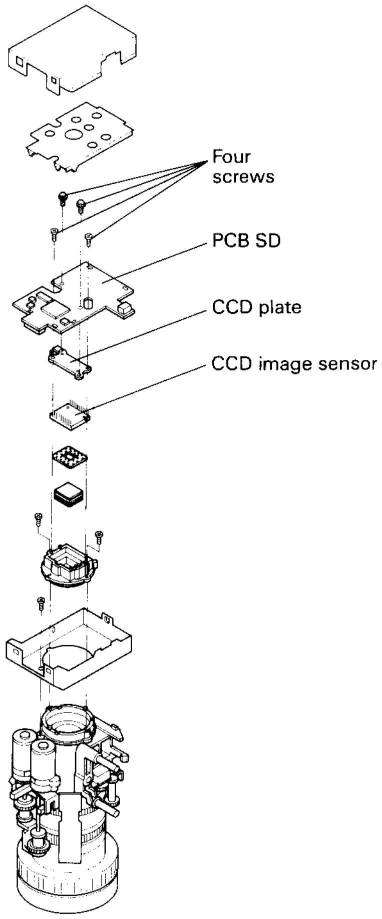

TP1AB
TP1AF
TP1AA
VR1AA
VR1AS
VR1AG
TP1AK
TP1AJ
VR1AJ
VR1AE
VR1AF
VR1AH
VR1AN
VR1AQ
VR1AD
VR1AM
VR1AP
VR1AB
VR1AT
TP1AC
TP1AE
VR1AC
VR1AU

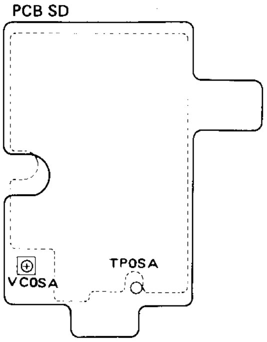
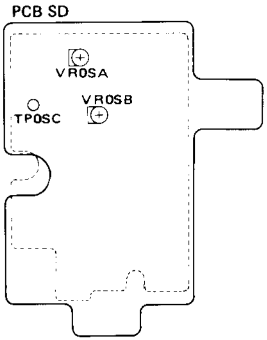
PCB SD

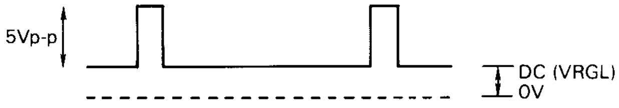

TP0SB
VR0SA
TP0SC
VR0SB
IC0SF
Shield plate-SD
VC0SA
TP0SA

Name of adjustment	Mode (Shooting condition)	Measuring instrument	Test point	Adjustment method
		OPTICAL FOCUS ADJUSTMENT		
Back focus	Use ND filter (Iris open)	Back focus adjusting screwdriver		1. Shoot an object at a sufficient distance (a object such as a calendar at a distance of more than 10m and of which focus can be checked). 2. Keep zoom at TELE end and fit the focus ring of the lens manually. (Judge the focus while seeing the monitor screen.) 3. Check the image by driving zoom to WIDE end. 4. If out of focus, loosen the fixing screw and adjust the master lens adjust cam with the back focus adjusting screwdriver to sharp focus. 5. Tighten the fixing screw. 6. Drive zoom from WIDE end to TELE end and check if the object is in focus. 7. At TELE end, adjust the focus ring again manually, then drive zoom to WIDE as it is, and make sure that the object is in focus in both case. 8. Lock the fixing screw.



Name of adjustment	Mode (Shooting condition)	Measuring instrument	Test point	Adjustment method
Horizontality and zoom tracking (Optical axis)  Monitor screen Chart WIDE END H V No deviation TELE END B Deviation A *Draw horizontal and vertical centre lines on the monitor screen in advance as illustrated above.	colour chart *Check and adjust horizontality of the tripod attached to the camera with a level vial. Use ND filter (Iris open)	$\frac{A}{H} \times 100 \leqq 25\%$ $\frac{B}{V} \times 100 \leqq 35\%$		1. At WIDE end, fit the chart centre to the monitor centre. 2. Make sure that the horizontal line of the colour bar chart is parallel to that of the monitor. (Angle difference shall be 4.5 max.) 3. Drive zoom from WIDE to TELE end, and make sure that off set of the chart centre is not more than 25% horizontally and 35% vertically on the monitor screen and that there is no skipping of image in the middle of zooming. 4. If the specifications can't be met, perform assembly adjustment of the CCD plate and the PCB SD, then repeat adjustment of above 1. to 3. again. * Slacken the four screws shown below, move the PCB SD with respect to CCD image sensor then tighten the four screws again. 

Name of adjustment	Mode (Shooting condition)	Measuring instrument	Test point	Adjustment method
Electrical Adjustment (Y)				
28MHz  		Frequency counter	TPOSA (PCB SD)	1. Connect the frequency counter to TPOSA (PCB SD). 2. Adjust VCOSA (PCB SD) so that frequency falls within 28.375000MHz ± 60Hz.
Substrate voltage (VSUB), reset gate clock voltage (VRGL)  		Oscilloscope	TPOSC (PCB SD) TPOSB (PCB SD)	1. Connect the scope to TPOSC (PCB SD). 2. Adjust VROSB (VSUB) for the DC voltage marked on the rear of the image sensor (ICOSF) ±0.1V. 1. Connect the scope to TPOSB (PCB SD). 2. Adjust VROSA (VRGL) so that the DC level between pulses is at the value marked on the rear of the image sensor (ICOSF) ±0.1V. (See Fig. left above)



◎ Marked values for PCB voltage (VSUB) and reset gate pulse voltage (VRGL)

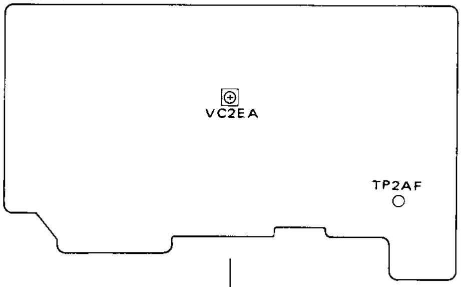
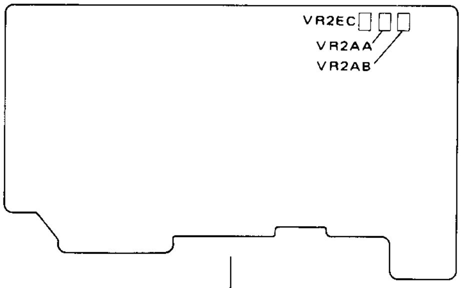
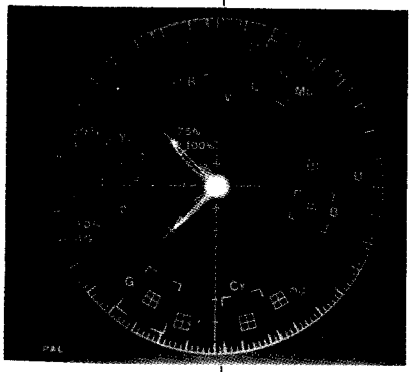
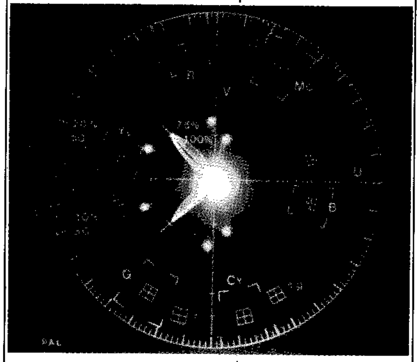
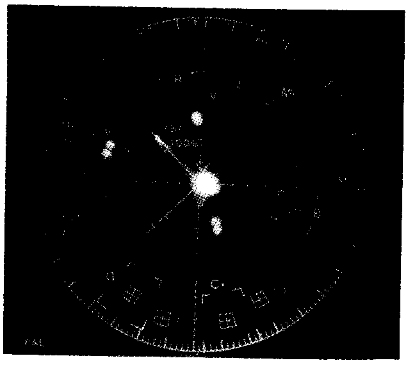
Mark for VSUB — 1 digit ☐ ☐
Mark for VRGL — 1 digit ↑VRGL mark ↑VSUB mark

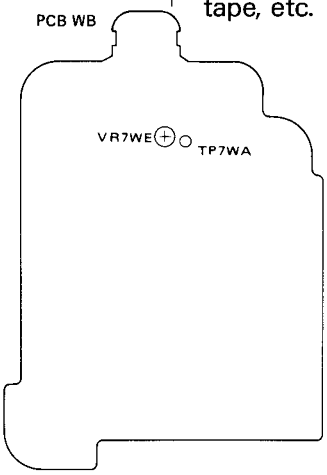
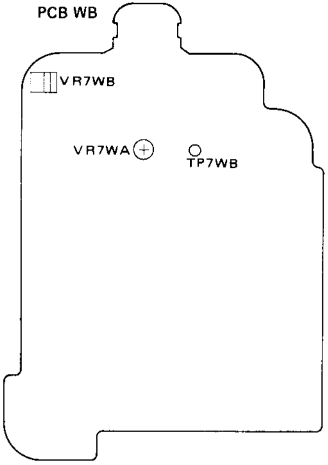
Each mark should be read as follows.

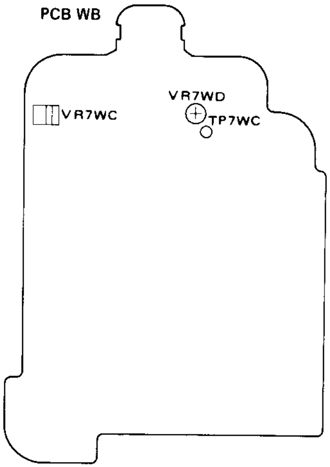
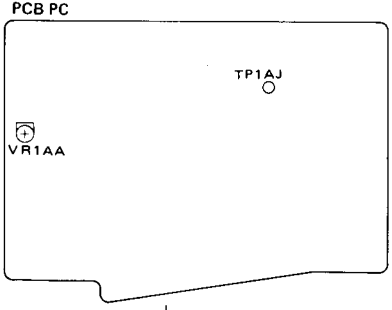
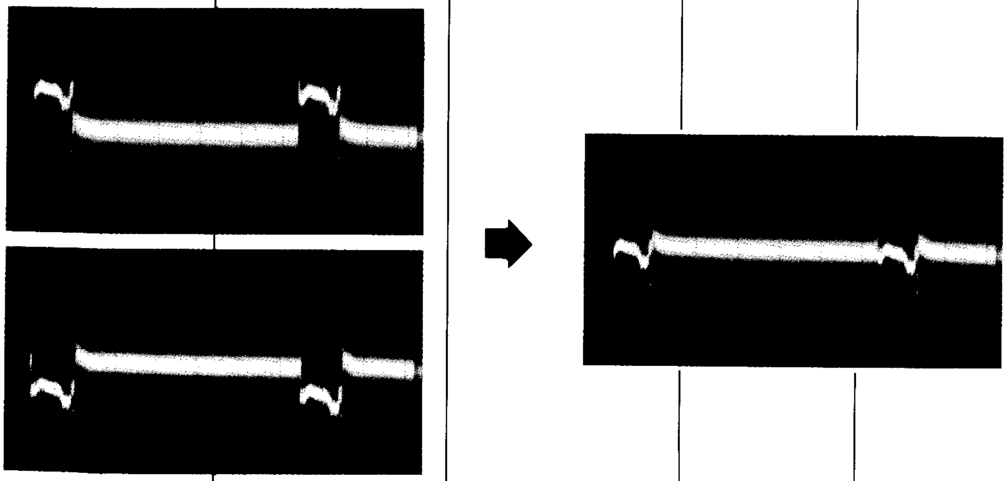
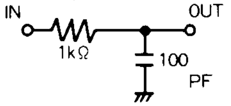
VRGL mark	0	1	2	3	4	5	6	7	8	9
Value	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0

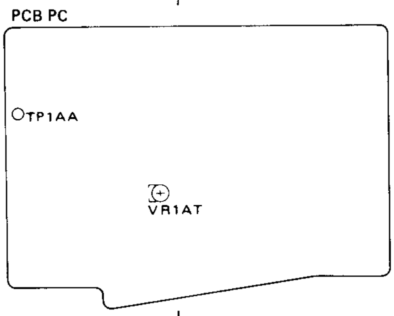
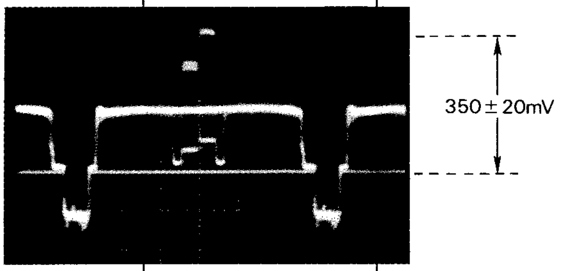
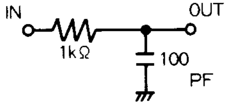
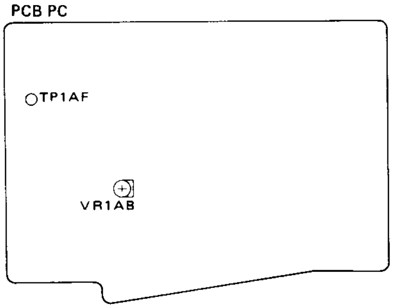
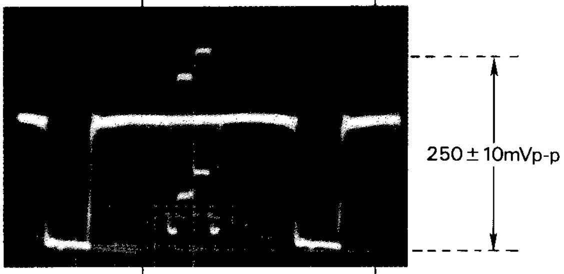
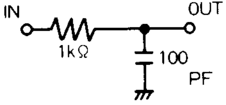
VSUB mark	E	f	G	h	J	K	L	M	N	P	Q	R	S	T	U	V	W	X	Y	Z
Value	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5

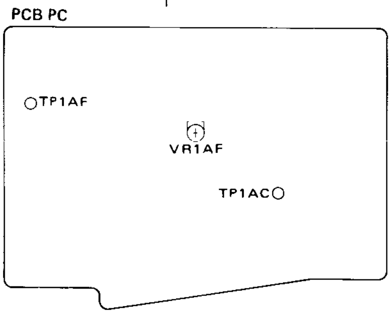
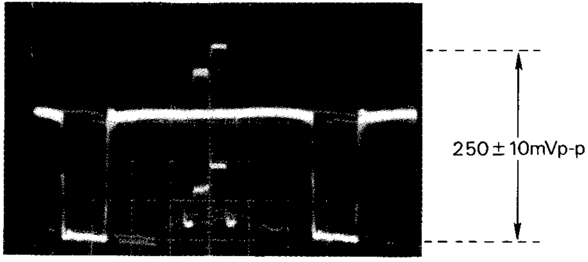
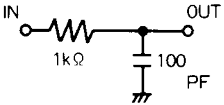
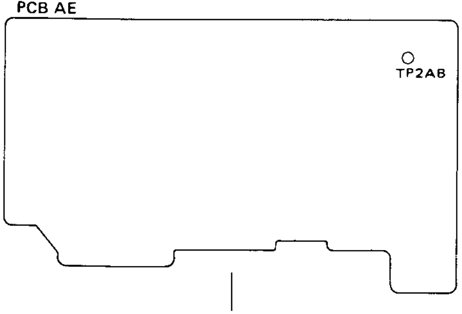
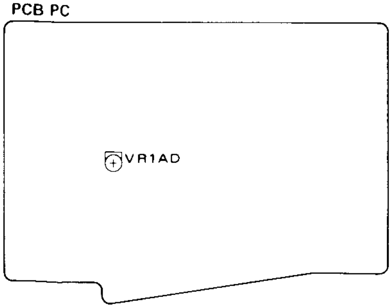
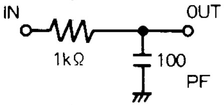
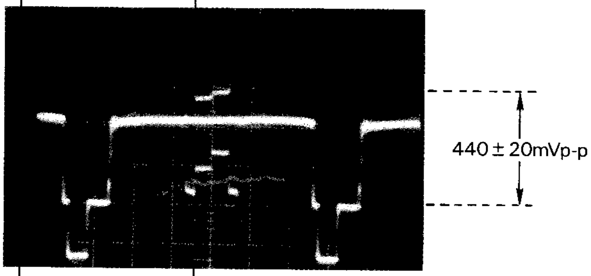
Example: "5L" → VRGL = 3.0V
VSUB = 12.0V

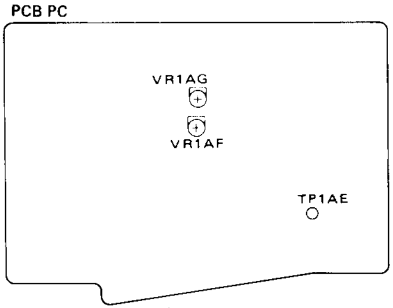
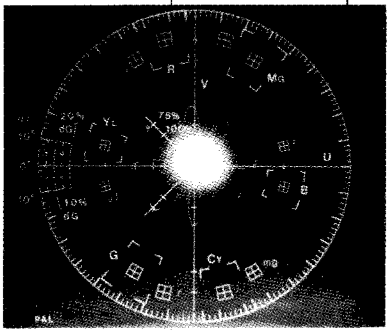
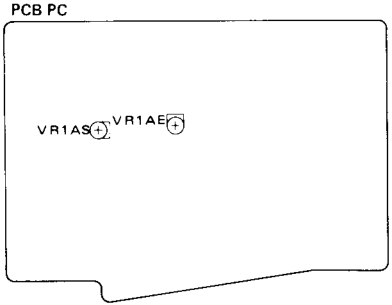
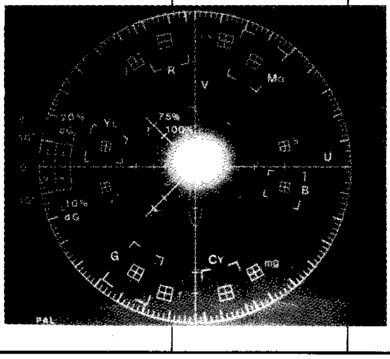
Name of adjustment	Mode (Shooting condition)	Measuring instrument	Test point	Adjustment method
4fsc PCB AE 		DC voltmeter	TP2AF (PCB AE)	* Before adjusting, make sure 28MHz adjustment is completed. 1. Connect DC voltmeter to TP2AF. 2. Adjust VC2EA for a level of 2.8V.
Colour burst signal PCB AE 	Lens shut-off	Vector scope SATURATION: 75% GAIN: Standard	Video out Y/C MIX adapter	1. Adjust VR2EC for 90° burst signal on the vector scope. 2. Adjust VR2AB so that the intensity on the vector scope becomes 75%. (If difference exists between +V and −V, set to the average.) 3. If burst signal's coordinates phase deviate, repeat steps 1 and 2.
	colour chart			4. Shoot the colour chart. 5. Set the vector scope to NTSC mode. Adjust phase control of the vector scope so that burst signals are in line. Adjust VR2AA so that red signal spots are converged.
		PAL mode 		NTSC mode 

Name of adjustment	Mode (Shooting condition)	Measuring instrument	Test point	Adjustment method
LL level 	Shut off the white balance sensor *Stick a black tape, etc.	Oscilloscope DIV 0.1V/DC	TP7WA (PCB WB)	1. Connect the oscilloscope to TP7WA (PCB WB). 2. Adjust VR7WE (PCB WB) slowly and fix it at the moment when indication on oscilloscope changes from "L" (lower than 1V) to sensor "H" (over 4V). 3. Open the tape a little and make sure that indication on the oscilloscope changes to "L".
R gain, R offset 	Attach the diffusing plate (taken off the camera switch unit) to the white balance sensor, and illuminate to 5,000±1,000 lux. *Face the halogen lamp toward the sensor so that the light falls directly onto the sensor. (Approx. 1m) *Note that decorated part of the lens may be affected by heat if the lamp is placed too close. Sensor←C16	Digital voltmeter	TP7WB (PCB WB)	1. Radiate the white balance sensor with 5,000±1,000 lux, 3,000±50°K. 2. Connect the digital voltmeter to TP7WB (PCB WB). 3. Adjust VR7WA (PCB WB) so that indication of the digital voltmeter differs by 1.000±0.05V between the sensor with C16 filter installed onto the front and the sensor without C16 filter. 4. Then adjust VR7WB (PCB WB) so that reading of the digital voltmeter becomes 2.000±0.05V when C16 filter isn't installed. 5. Make sure that reading of the digital voltmeter is 3.000±0.05V when C16 filter is installed again. If reading differs, repeat the above adjustments 3. 4. and 5.

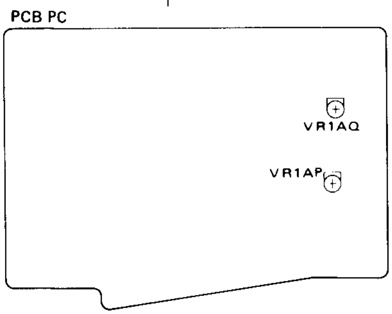
Name of adjustment	Mode (Shooting condition)	Measuring instrument	Test point	Adjustment method
B gain, B offset  	Adjust to the same mode as R gain, R offset. Sensor← Diffusing plate, C16	Digital voltmeter	TP7WC (PCB WB)	1. Radiate the white balance sensor with 5,000±1,000 lux, 3,000±50°K. 2. Connect the digital voltmeter to TP7WC (PCB WB). 3. Adjust VR7WD so that indication on the digital voltmeter differs 1.000±0.05V between the sensor with C16 filter installed onto the front and the sensor without C16 filter. 4. Then adjust VR7WC (PCB WB) so that reading on the digital voltmeter is 2.000±0.05V when C16 filter isn't installed. 5. Make sure that reading on the digital voltmeter is 3.000±0.05V when C16 filter is installed. If not, repeat the above adjustments 3. 4. and 5.
OB offset  	Lens shut-off	Oscilloscope DIV 5mV TIM 10μsec	TP1AJ (PCB PC) LPF is used  	1. Cap the lens. 2. Observe TP1AJ (PCB PC) with an oscilloscope through LPF jig. 3. Adjust VR1AA (PCB PC) to the minimum offset.

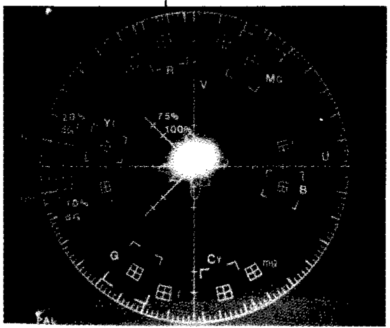
Name of adjustment	Mode (Shooting condition)	Measuring instrument	Test point	Adjustment method
ALC  	colour chart	Oscilloscope DIV 10mV TIM 10μsec 	TP1AA (PCB PC) LPF is used	1. Make sure that iris (APL switch) is turned to AUTO. (If Y/C MIX adapter isn't used, turn ON the full auto switch on the PCB LCD.) 2. Take the colour chart at the standard picture angle. 3. Observe TP1AA (PCB PC) with an oscilloscope through LPF jig. 4. Adjust VR1AT (PCB PC) so that the level of peak white comes to 350± 20mV.
APL  	colour chart	Oscilloscope DIV 5mV TIM 10μsec 	TP1AF (PCB PC) LPF is used	1. Keep iris (APL switch) at auto, and take the colour chart with the standard picture angle. 2. Observe TP1AF (PCB PC) with an oscilloscope through LPF jig. 3. Adjust VR1AB (PCB PC) so that the level of peak white comes to 250± 10mVp-p.

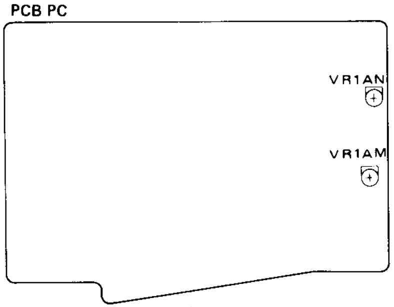
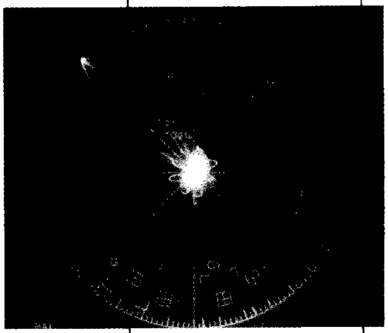
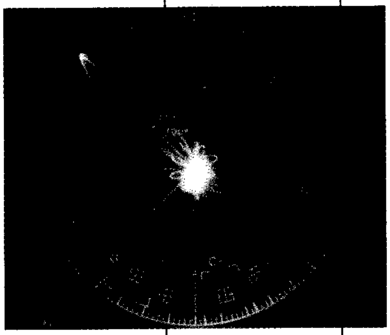
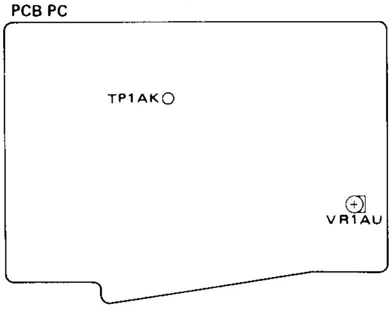
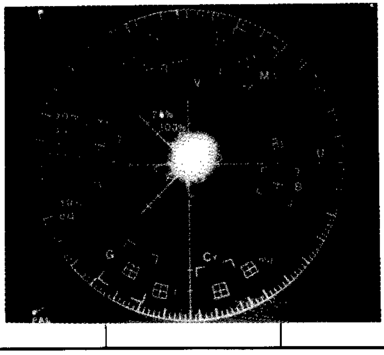
Name of adjustment	**Mode (Shooting condition)**	**Measuring instrument**	**Test point**	**Adjustment method**
DCC AMP gain  PCB PC TP1AF VR1AF TP1AC  	colour chart	Oscilloscope DIV 5mV TIM 10μsec  IN OUT 1kΩ 100 PF	TP1AC (PCB PC) LPF is used	1. Keep iris (APL switch) at auto, and take the colour chart with the standard picture angle. 2. Observe TP1AC (PCB PC) with an oscilloscope through LPF jig. 3. Adjust VR1AF (PCB PC) so that the level of peak white comes to 250 ± 10mVp-p.
Y signal level  PCB AE TP2AB  PCB PC VR1AD	colour chart	Oscilloscope DIV 20mV TIM 10μsec  IN OUT 1kΩ 100 PF	TP2AB (PCB AE) LPF is used  	1. Keep iris (APL switch) at auto, and take the colour chart with the standard picture angle. 2. Observe TP2AB (PCB AE) with an oscilloscope through LPF jig. 3. Adjust VR1AD (PCB PC) so that the level of background comes to 440 ± 20mVp-p.

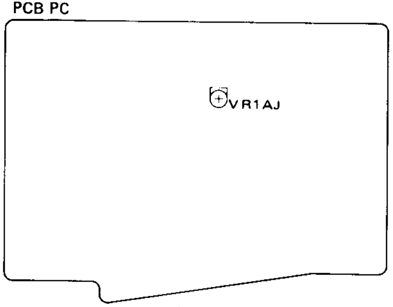
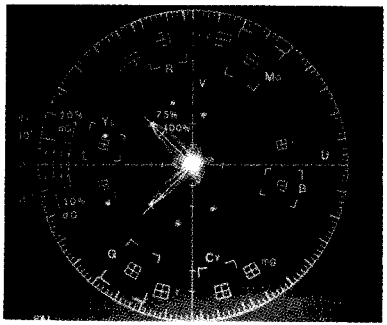
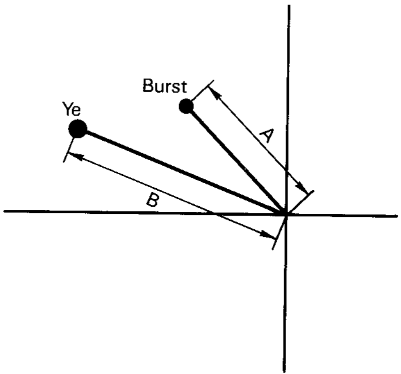
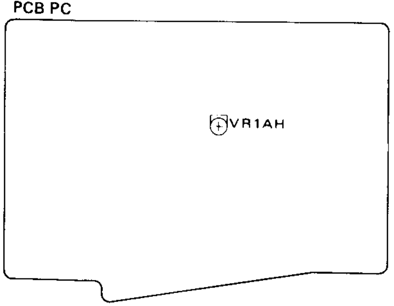
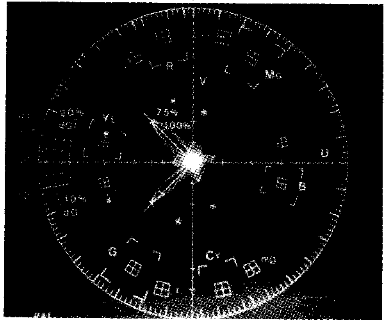
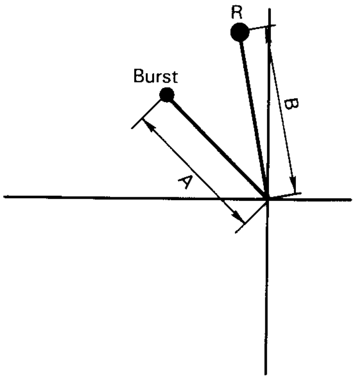
Name of adjustment	Mode (Shooting condition)	Measuring instrument	Test point	Adjustment method
Electrical Adjustment (C) Proceed to this adjustment after checking colour burst signal				
R-Y, B-Y offset  PCB PC VR1AG VR1AF TP1AE	Lens shut-off	Vector scope SATURATION: 75% GAIN: MAX  R V Mg YL 75% 100% 20% dG 10% dG U B G Cy PAL	Video out (Y/C MIX adapter)	1. Ground TP1AE (PCB PC) using 100µF capacitor. 2. Observe with the vector scope at the maximum sensitivity. 3. Adjust VR1AF (PCB PC) and VR1AG (PCB PC) so that the bright point comes to the centre.
C offset fH/2 offset  PCB PC VR1AS VR1AE	Lens shut-off	Vector scope  R V Mg YL 75% 100% 20% dG 10% dG U B G Cy PAL	Video out (Y/C MIX adapter)	1. Take off 100µF capacitor from the above condition. 2. Adjust VR1AE (PCB PC) and VR1AS (PCB PC) while observing the vector scope so that the bright point comes closest to the centre.

Name of adjustment	Mode (Shooting condition)	Measuring instrument	Test point	Adjustment method
R, B offset	White chart *Use a sheet of white paper of high reflection. *When re-setting white balance switch, wait for 20 seconds and start adjustment.	Vector scope SATURATION: 75% GAIN: MAX	Video out (Y/C MIX adapter)	1. Set white balance switch to IN DOOR. 2. Take the white chart onto the full screen. 3. Set vector scope to full sensitivity. 4. Adjust VR1AP (PCB PC) and VR1AQ (PCB PC) so that the spot becomes closer to the centre of the vector scope screen.

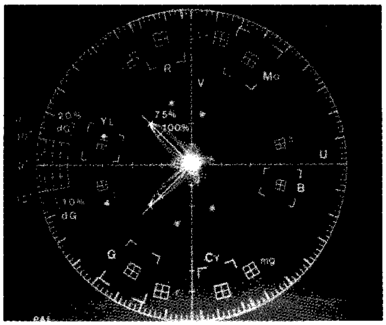


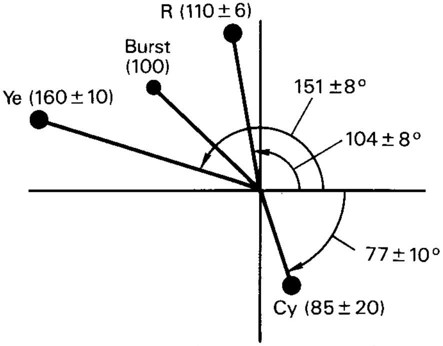


Name of adjustment	Mode (Shooting condition)	Measuring instrument	Test point	Adjustment method
R, B WB  	White chart White balance "OUT" (☀) Lens←C2+C12 	Vector scope (NTSC MODE) SATURATION: 75% GAIN: Adjust for easy checking 	Video out (Y/C MIX adapter)	1. Set the white balance switch to OUT DOOR (daylight) mode. 2. Take white chart on the full screen though C2+C12. 3. Adjust VR1AN (PCB PC) and VR1AM (PCB PC) so that the spot comes bottom of the centre of vector scope as shown.
DCC AMP  	White chart White high reflective paper White balance "IN DOOR" Note: When re-setting white balance switch, wait for 20 seconds and start adjustment.	Vector scope GAIN: MAX	Video out (Y/C MIX adapter) 	1. Set white balance switch to IN DOOR and iris (APL switch) to AUTO. 2. Shoot white chart full screen. 3. Observe the vector scope with maximum sensitivity. 4. Apply a ground to TP1AK (PCB PC) through 100μF NP capacitor. 5. Adjust VR1AU (PCB PC) so that the spot becomes closer to the centre of the vector scope screen.

Name of adjustment	Mode (Shooting condition)	Measuring instrument	Test point	Adjustment method
B-Y gain  	colour chart Sensor← Diffusing plate 	Vector scope SATURATION: 75% GAIN: Adjust to easy checking	Video out (Y/C MIX adapter)	1. Set white balance switch to IN DOOR (incandescent lamp) mode. 2. Take the colour chart at the standard picture angle. 3. Adjust VR1AJ (PCB PC) so that the distance of Ye bright point from the centre is 1.6 times of the burst signal A.  $\frac{B}{A} = \frac{1.6}{1}$
R-Y gain  	colour chart Sensor← Diffusing plate 	Vector scope SATURATION: 75% GAIN: Adjust to easy checking	Video out (Y/C MIX adapter)	1. Adjust VR1AH (PCB PC) following B-Y gain adjustment so that the distance of R bright point from the centre is 1.1 times of the burst signal A. 2. Perform the above B-Y and R-Y gain adjustments again to the specified value respectively.  $\frac{B}{A} = \frac{1.1}{1}$

Name of adjustment	Mode (Shooting condition)	Measuring instrument	Test point	Adjustment method
Check and adjustment of chroma angle and gain	colour chart Sensor← Diffusing plate	Vector scope SATURATION: 75% GAIN: Adjust to easy checking	Video out (Y/C MIX adapter)	1. Check the video out signal with the vector scope. 2. Be certain that the angle and gain of R, Ye and Cy are shown in left figure. If it deviates, excute the following adjustments again. ① Burst level ② B-Y gain ③ R-Y gain

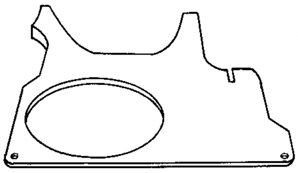
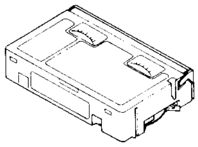
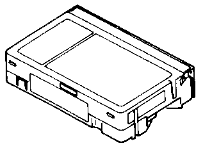

R
V
Mg
20%
dG
YL
75%
100%
U
B
10%
dG
G
CY
mg


R (110±6)
Burst
(100)
Ye (160±10)
151±8°
104±8°
77±10°
Cy (85±20)

MECHANICAL ADJUSTMENTS

1. Jigs and Measuring Instruments Required for Mechanism Adjustment

1-1. Jigs for Adjustment

Master plane	Cassette torque meter	Alignment tape (PM6KE2C)
859C397030	859C360010	859C397060
		

1-2. Other Tools and Measuring Instruments Required

①Colour monitor (Colour TV)
②Oscilloscope
③Hex key (1.5mm)
④Box driver (4.5mm)

2. CLEANING

Cleaning of the following items is essential at servicing to maintain satisfactory performance at all times.

2-1 Cleaning the head

(1) If normal reproduction of image fails due to deposition of any foreign matter such as dust onto the head, immerse alcohol into a cloth for video head cleaning, put the cloth softly against the drum, and move the drum slowly counter-clockwise while fixing the cleaning cloth.

Note:

Be careful not to touch directly the head tip attached to the upper drum. The head tip is of highly hard type and is brittle to impact (particularly in lateral direction) and is easily broken. Never move the head tip in lateral direction.

(2) When cleaned with alcohol, be sure to run a tape after drying fully. If drying is insufficient and alcohol is deposited onto a tape, the part of the tape may possibly be damaged.

2-2 Cleaning the tape path system (Refer to Fig. 1)

The points to be cleaned of the tape run system are ;

1. Tension arm
2. Supply impedance roller
3. FE head
4. Impedance roller A
5. Supply guide roller
6. Supply slant pole
7. Upper & lower drums
8. Takeup guide roller
9. Takeup slant pole
10. Movable slant pole
11. AC head guide shaft
12. AE,AC head
13. Takeup guide pole
14. Pinch roller
15. Takeup guide arm
16. Capstan shaft
17. Pinch roller guide shaft

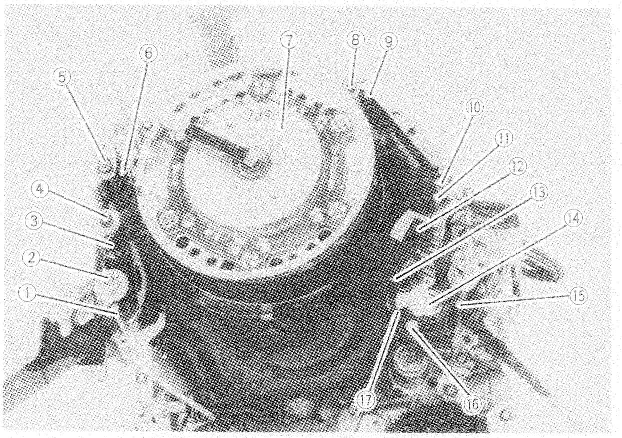


Fig.1

(1) Clean the tape run system except supply guide roller and takeup guide roller with gauze wet with alcohol.
Clean the supply guide roller and takeup guide roller with dry gauze or exchange them for new parts.

(2) When cleaned with alcohol, be sure to dry fully before running a tape. If drying is insufficient and alcohol is deposited onto a tape, the part of the tape may possibly be damaged.

2-3 Cleaning the reel disk driving system

(1) To the reel disk driving system clean the brake face of the reel disk.

(2) Clean the brake face with gauge wet with alcohol.

(3) When cleaned with alcohol, start operating the system after drying fully.

3. HOW TO ATTACH THE MASTER PLANE (Refer to Fig. 2.)

(1) Take off the cassette housing. (See 4-1.)

(2) Take off the gear LA3. (See 4-2.)

(3) Turn the supply '& Takeup guide assembly to loaded mode (by turning the main cam gear counter-clockwise).

(4) Attach the master plane (Pats No. : 859C397030) while fitting the positioning hole to the positioning pin of the main plate.

Note:

When the master plane is used, keep it fixed firmly by pressing part A (See Fig. 2.)

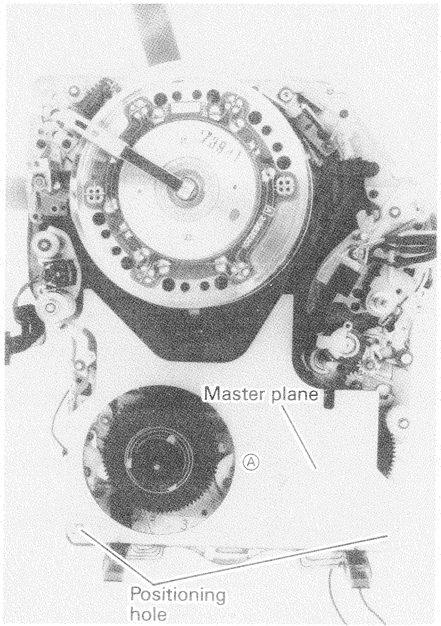


Fig.2

4. HOW TO REPLACE THE PRINCIPAL PARTS

4-1 Cassette housing replacement

4-1-1 Dismounting

(1) Keep the cassette housing closed.
(2) Remove the fixing screw(ⓐ : Fig. 3-1-1), and take the dew sensor and the lead wire off the cassette housing.
(3) Take the lead wire of FE head off the lead wire clamper of the tape end sensor. (See Fig. 3-1-2.)
(4) Remove the tape end sensor fixing screw (ⓑ : Fig. 3-1-2), and remove the tape end sensor from the cassette housing carefully so that the FPC cable may not be damaged.
(5) Take off six screws (3 at the left side ⓒ , ⓓ , ⓔ Fig. 3-1-3, and 3 at the right side ⓕ , ⓖ , ⓗ Fig. 3-1-4) fixing the cassette housing.
(6) Move the eject lever in arrow direction to change to eject mode. (See Fig. 3-1-1.)
(7) Take off two positioning pins (ⓘ , ⓙ , Fig. 3-1-4)at the right side of the cassette housing from the main plate.
(8) Take them off from the main plate by pushing the mounting seat at the right side of the cassette housing outward a little and by pulling upward.
(9) Turn the cassette housing clockwise around the positioning pin ⓚ (Fig. 3-1-3), make sure that the fixing screw ⓓ (Fig. 3-1-3) mounting seat is removed from the main plate passing under the spring-S, then take off the main plate by pulling upward carefully so that the tape end sensor and the lead wire may not be damaged.

4-1-2 Mounting

(1) Turn the cassette housing to eject mode.
(2) Temporarily fit the positioning hole ⓚ of the cassette housing with the positioning pin of the main plate in reverse order of dismounting the cassette housing, turn the cassette housing counter-clockwise around the point, then attach the left side of the cassette housing so that the positioning hole ⓛ (Fig. 3-1-3) goes under the spring S and coincides with the positioning pin of the main plate.
(3) Push the right side mounting seat of the cassette housing outward a little to lower it to the attaching position of the main plate, then attach to the main plate by fitting two positioning holes of the cassette housing (ⓘ , ⓙ : Fig. 3-1-4) to the positioning pins of the main plate.
(4) Tighten the cassette housing and fixed with six fixing screws (ⓒ , ⓓ , ⓔ , ⓕ , ⓖ & ⓗ).
(5) Attach the tape end sensor to the cassette housing.
(6) Bundle the lead wires of FE head with the lead wire clamper of the tape end sensor.
(7) Attach the dew sensor to the cassette housing.

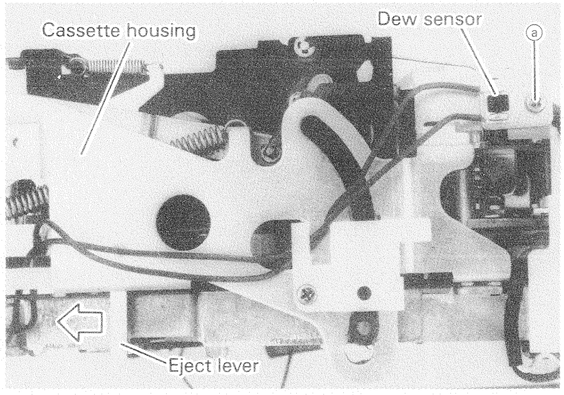


Fig.3 − 1 − 1

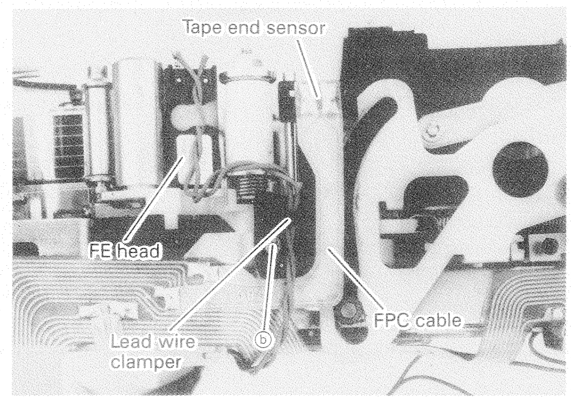


Fig.3 − 1 − 2

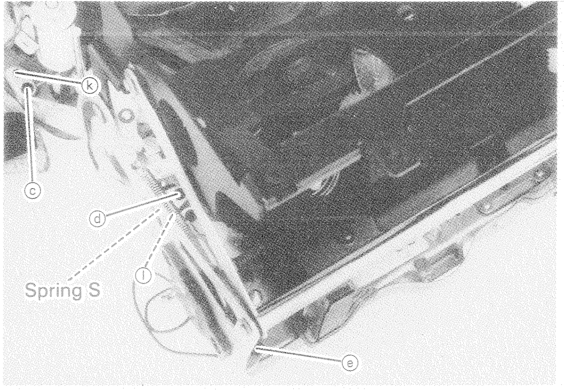


Fig.3 − 1 − 3

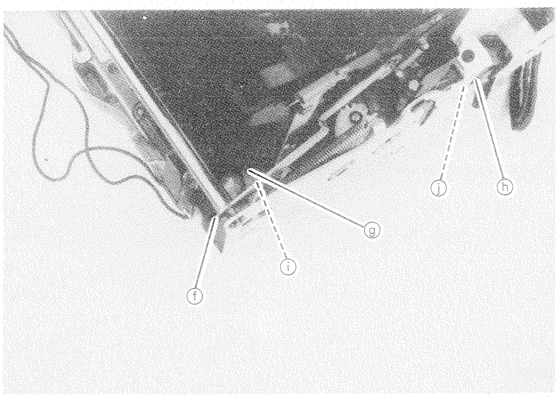


Fig.3 − 1 − 4

4-2 Gear LA3 replacement

Replacement of individual gear LA3 is seldom required but the supply & Takeup tape guide is turned to loading and unloading mode in some cases when other parts are adjusted or replaced.The gear LA3 is taken off in such a case to turn the main cam gear.

4-2-1 Dismounting

(1) Take off the cut washer which is fixing the gear LA3 and take off the gear.

4-2-2 Mounting

(1) Attach the gear LA3 to the main plate and fix with the cut washer.

Note:

The gear LA3 can be attached more easily by turning the main cam gear a little.

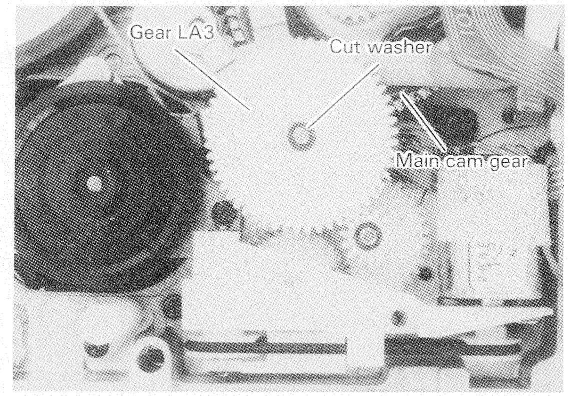


Fig.3 − 2 − 1

4-3 PCB MAD replacement

4-3-1 Dismounting

(1) Release the board holder on the main plate.

(2) Take off the connectors AE and AF on the PCB MDA.

(3) Take off the PCB MDA fixing screws and turn the board.

(4) Take off the FPC cables from the connectors AB and AD on the PCB MDA.

(5) Take the PCB MDA off the main plate.

4-3-2 Mounting

(1) Connect the FPC cable of the drum motor and the FPC cable of the capstan motor to the connectors AD and AB on the PCB MDA.

(2) Attach the PCB MDA onto the main plate and fix with the set screw and the board holder.

(3) Connect the AE connector from the AC head and the AF connector from the FE head to the connectors on the PCB MDA.

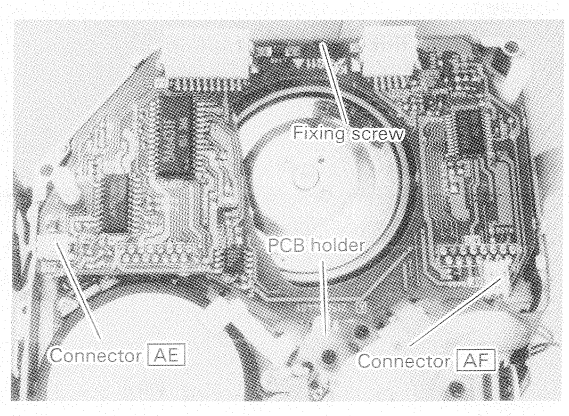


Fig.3 − 3 − 1

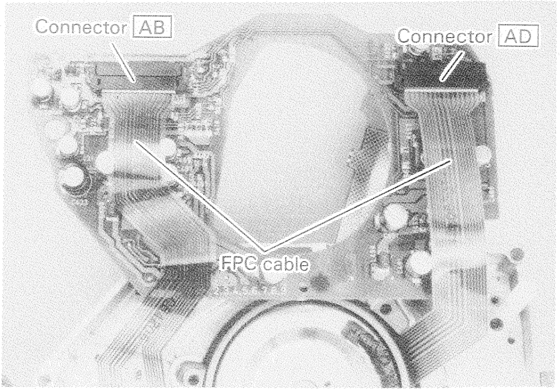


Fig.3 − 3 − 2

4-4 Drum assembly replacement

4-4-1 Dismounting

(1) Take off the fixing screw ⓐ (Fig. 3-4-1) and remove the brush.

(2) Take off the PCB MDA. (See 4-3.)

(3) While fixing the drum assembly firmly, remove three drum assembly fixing acrews (ⓑ , ⓒ , ⓓ Fig. 3-4-2).

(4) Hold up the drum assembly slowly so that the assembly may not touch any peripheral part then take off.

Note:
The Takeup tape guide stopper is positioned close to the drum assembly. In detaching and attaching the drum assembly, be careful not to put the assembly in contact with the stopper.

4-4-2 Mounting

(1) Pass the FPC cable attached to the drum assembly from the front side to the pack side of the drum assembly mounting hole.

(2) Attach the drum assembly onto the main plate so that the positioning pins on the main plate (ⓖ , ⓗ : Fig. 3-4-4) go into the positioning holes (ⓔ , ⓕ : Fig. 3-4-3) of the assembly while carefully avoiding contact with any peripheral part of the drum assembly.

(3) Fix the drum assembly with three drum assembly fixing screws (ⓑ, ⓒ, ⓓ :Fig. 3-4-2).

(4) Attach the PCB MDA.

(5) Attach the brush.

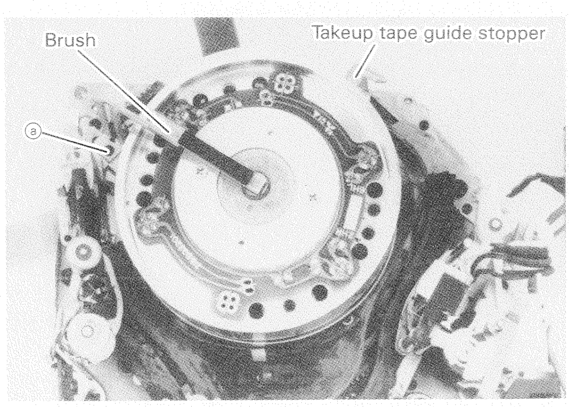


Fig.3 – 4 – 1

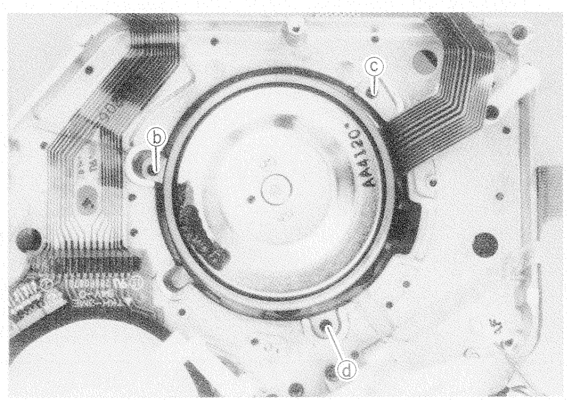


Fig.3 – 4 – 2

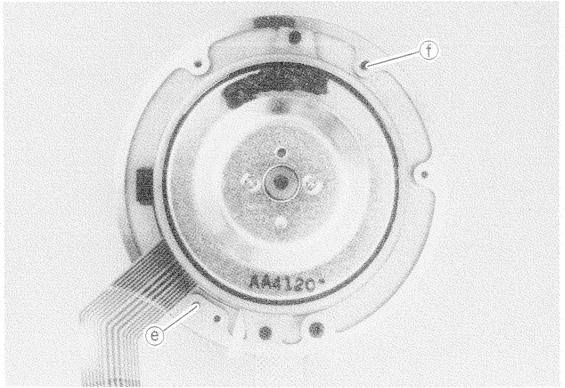


Fig.3 – 4 – 3

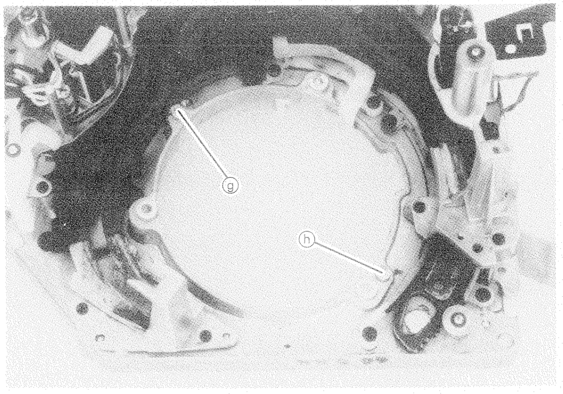


Fig.3 – 4 – 4

4-5 Upper drum replacement

4-5-1 Dismounting

(1) Remove the fixing screw ⓐ (Fig. 3-5-1) and take off the brush.

(2) Remove solder from the solder terminals of each head (4 terminals to each head) on the periphery of the upper drum. (See Fig. 3-5-2)

(3) Take off two upper drum fixing screws (ⓑ, ⓒ : Fig. 3-5-2) on the upper drum.

(4) Take the upper drum off the lower drum by holding upward.

Note:

If the upper drum is hard to remove even when the two fixing screws and the solder terminals of each head are taken off, heat the root of the upper drum fixing screws with a solder iron for easier removing.

4-5-2 Mounting

(1) Face the head channel position check hole of the lower drum to this side.

(2) Face the head channel position check mark of the upper drum to the right side, and attach the upper drum to the lower drum so that each terminal of the lower drum goes into the hole of each solder terminal of the upper drum.

(3) Fix the upper drum to the lower drum with two fixing screws (ⓑ, ⓒ : Fig. 3-5-2)

(4) Solder the non-soldered terminals on the upper drum.

(5) Attach the brush.

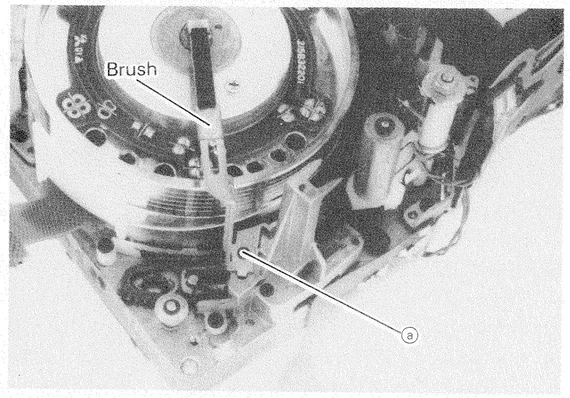


Fig.3 − 5 − 1

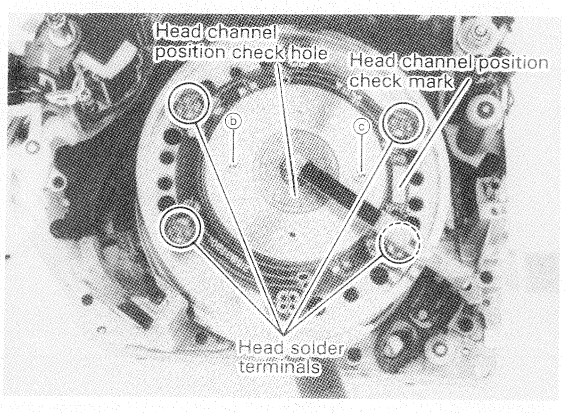

Head channel position check hole
Head channel position check mark
ⓑ
ⓒ
Head solder terminals

Fig.3 − 5 − 2

4-6 SYNC belt replacement

4-6-1 Dismounting

(1) Loosen two fixing screws (ⓐ, ⓑ Fig. 3-6-1) to the point where the reel idler can move.

(2) Slide the reel idler in arrow direction, and take off the SYNC belt from the capstan motor and the reel idler.

4-6-2 Mounting

(1) Slide the reel idler in arrow direction, and attach the SYNC belt to the capstan motor and the reel idler.

(2) Slide the reel idler in opposite direction of the arrow to stop, then fix with two fixing screws (ⓐ, ⓑ : Fig. 3-6-1).

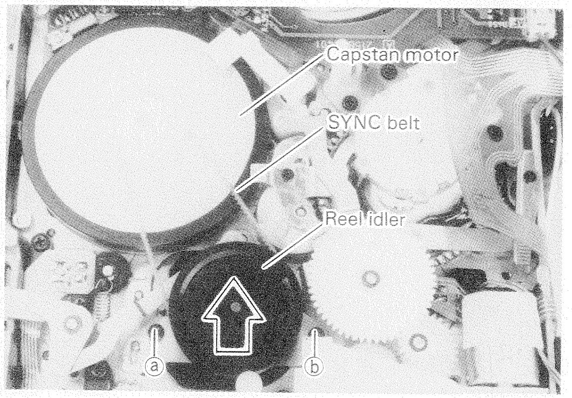


Fig.3 − 6 − 1

4-7 Capstan motor replacement

4-7-1 Dismounting

(1) Remove the cassette housing. (See 4-1.)
(2) Take off the PCB MDA. (See 4-3.)
(3) Take off the SYNC belt. (See 4-6.)
(4) Remove the fixing screw ⓐ (Fig. 3-7-1) and take off the capstan brake.
(5) Remove the fixing screw ⓑ (Fig. 3-7-1) and take off the cam gear hold plate.
(6) While fixing the capstan motor firmly, take off three fixing screws (ⓒ , ⓓ , ⓔ : Fig. 3-7-2) from the front side of the main plate, and take out the capstan motor slowly from the rear side of the main plate using care so that the motor may not come in contact with any peripheral part.

4-7-2 Mounting

(1) From the rear side of the main plate, attach the capstan motor carefully so that the motor may not come in any peripheral part, then fix from the front side of the main plate with three fixing screws (ⓒ, ⓓ, ⓔ : Fig. 3-7-2).
(2) Mount the cam gear hold plate onto the main plate so that the positioning pins coincide with the positioning holes on the main plate, then fix with the fixing screw ⓑ (Fig. 3-7-1).
(3) Mount the capstan brake so that the positioning pins coincide with the positioning holes on the main plate, then fix with the fixing screw ⓐ (Fig. 3-7-1).
(4) Attach the SYNC belt.
(5) Attach the PCB MDA.
(6) Attach the cassette housing.

4-8 Loading motor & loading belt replacement

4-8-1 Dismounting

(1) While keeping the cassette housing under eject mode, remove the loading motor assembly fixing cut washer (Fig. 3-8-1) from the front side.
(2) Take off the cut washer (Fig. 3-8-2) which is fixing the gear LA3, and remove the gear.
(3) Remove the fixing screw ⓐ (Fig. 3-8-2), and hold the loading motor assembly upward to take it off the main plate.
(4) Remove the loading belt from the worm LA and the loading motor. (Fig. 3-8-3)
(5) Remove two fixing screws (ⓑ, ⓒ : Fig. 3-8-3) and take the loading motor off the motor holder.

4-8-2 Mounting

(1) Attach the loading motor onto the motor holder, and fix with two fixing screws (ⓑ , ⓒ : Fig. 3-8-3).
(2) Attach the loading belt to the worm LA and the loading motor.
(3) Mount the loading motor assembly onto the main plate so that the gear LA1 mounting shaft attached to the loading motor assembly goes into the mounting hole on the main plate, then fix with the fixing screw ⓐ (Fig. 3-8-2).
(4) Mount the gear LA3.
(5) Attach the loading motor assembly fixing cut washer (Fig. 3-8-1) from the front side of the deck.

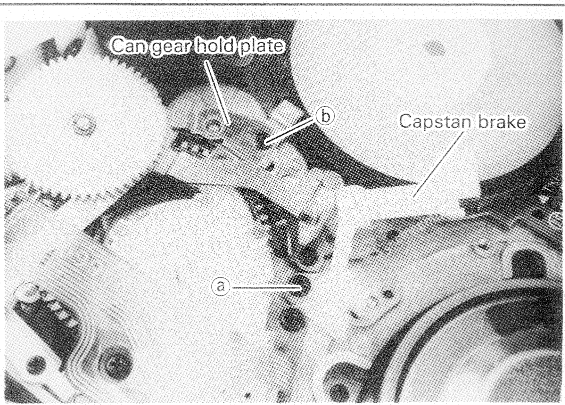


Fig.3 – 7 – 1

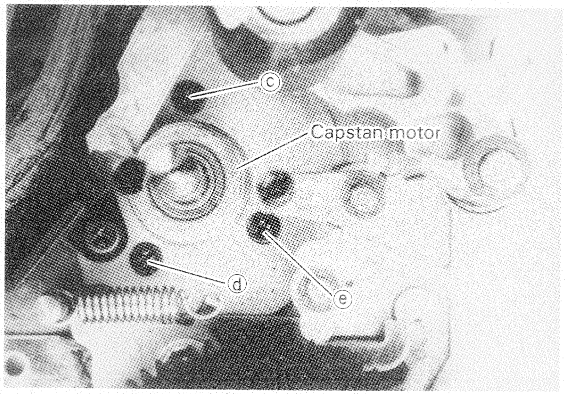


Fig.3 – 7 – 2

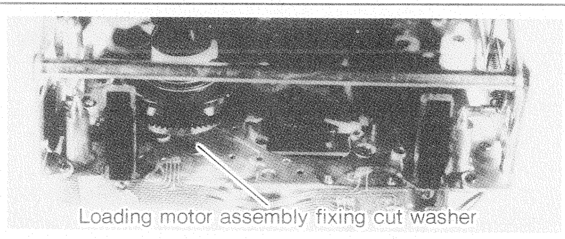


Fig.3 – 8 – 1

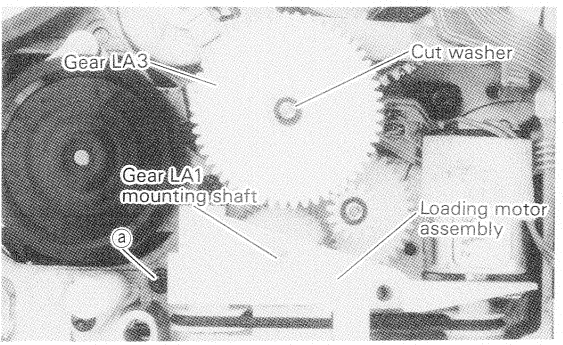


Fig.3 – 8 – 2

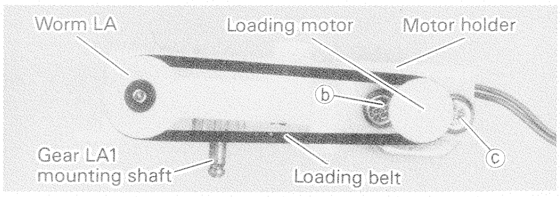


Fig.3 – 8 – 3

4-9 Pinch roller replacement

4-9-1 Dismounting

(1) Keep the cassette housing under eject mode.
(2) Remove the fixing screw ⓐ (Fig. 3-9-1) and take the door guide A off the cassette housing.
(3) Pull the pinch roller cap upward to take it off the pinch roller arm.
(4) Pull the pinch roller upward to take it off the pinch roller arm.

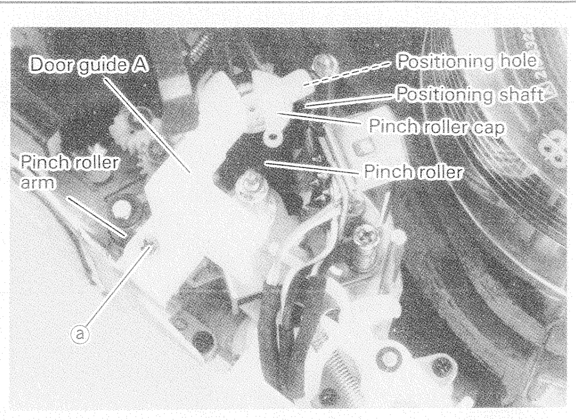

Door guide A
Positioning hole
Positioning shaft
Pinch roller cap
Pinch roller arm
Pinch roller
ⓐ

Fig.3 − 9 − 1

4-9-2 Mounting

(1) Attach the pinch roller to the pinch roller arm.
(2) Attach the pinch roller cap to the pinch roller arm so that the positioning shaft of the pinch roller arm goes into the positioning hole of the pinch roller cap.
(3) Attach the door guide A to the cassette housing so that the positioning pin of the door guide A goes into the positioning hole of the cassette housing, then fix with the fixing screw ⓐ (Fig. 3-9-1).

4-10 Mode switch replacement

4-10-1 Dismounting

(1) Remove the connector AF on the PCB MDA. (See Fig. 3-10-1.)
(2) Remove two mode switch fixing screws (ⓐ, ⓑ :Fig. 3-10-1) and take the mode switch off the main plate.
(3) Remove solder of 5 solder terminals of the FPC cable soldered to the mode switch , and take off the FPC cable from the mode switch. (See Fig. 3-10-2)

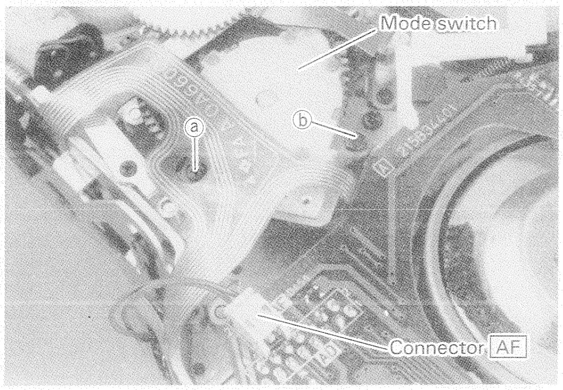

Mode switch
ⓐ
ⓑ
Connector AF

Fig.3 − 10 − 1

4-10-2 Mounting

(1) Match the check-up marks on the mode switch.
(2) Practice fine adjustment by turning the gear of the mode switch while checking with a meter so that the circuits between the common terminal of the mode switch and each terminal are conducted in the following state ;

Note :
Use a meter of × 1000 range.

P0 ..... Conducting
P1 ..... Conducting
P2 ..... Open
P3 ..... Conducting

(3) Attach the mode switch onto the main plate while carefully preventing the mode switch gear from turning and in the manner that the gear is meshed with the main cam gear (centre side), and fix the switch with two fixing screws. (ⓐ, ⓑ : See Fig. 3-10-1.)
(4) Connect the connector AF on the PCB MDA.

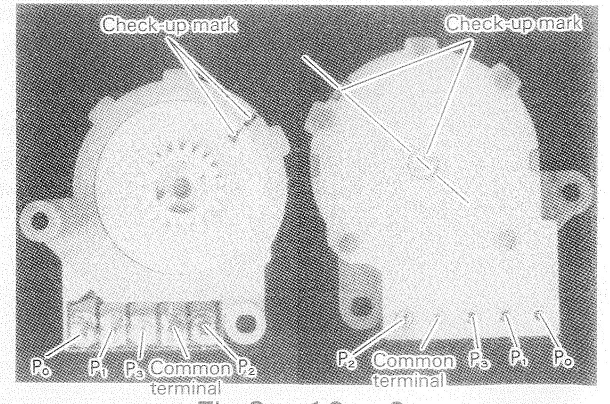

Check-up mark
Check-up mark
P_0
P_1
P_3
Common terminal
P_2
P_2
Common terminal
P_3
P_1
P_0

Fig.3 − 10 − 2

4-11 Supply reel disk replacement

4-11-1 Dismounting

(1) Remove the cassette housing.
(2) Take off the cut washer (Fig. 3-11-1) which is fixing the supply reel disk.
(3) Take the reel disk off the main plate by moving the brake S in arrow direction.

4-11-2 Mounting

(1) Make sure that the thrust washer is attached to the reel disk mounting shaft.
(2) Move the brake S in arrow direction and attach the reel disk to the reel disk mounting shaft.
(3) Make sure that the supply reel disk turns smoothly while the brake S is kept at the moved position.
(4) Mount the master plane. (See Para.3 on page 46.)
(5) Place a square for height adjustment (reel disk measuring side : REEL-M mark) on the master plane.
(6) Slide the height measuring part of the square to the edge of the reel disk, and make sure that the reel disk turns smoothly at A point of the square (higher one of measuring points) and doesn't turn at B point (lower one of measuring points).
Check this in two directions of X axis and Y axis.
(7) If the result of the above check isn't satisfactory, adjust by changing number of the thrust washers(materialcode:552C001020) attached under the reel disk.
(8) Fix the reel disk by the cut washer.
(9) Mount the cassette housing.

4-12 Reel gear A replacement

4-12-1 Dismounting

(1) Remove the cassette housing.
(2) Take off the cut washer ⓐ (Fig. 3-12-1) which is fixing the gear TU1-A, and remove the gear TU1-A from the main plate.
(3) Take off the cut washer ⓑ (Fig. 3-12-1) which is fixing the reel gear A.
(4) Take the reel gear A off the main plate while moving the lever (for attaching the right side of the spring) of the cam plate assembly shown in Fig. 3-12-1 a little to the right.

4-12-2 Mounting

(1) Make sure that the thrust washer is attached to the reel gear A mounting shaft.
(2) Move the lever (for attaching the right side of the spring) of the cam plate assembly shown in Fig. 3-12-1 slightly to the right.
(3) Attach the reel gear A to the main plate so that the lower gear of the reel gear A is meshed with the gear of the reel gear lock unit, then fix with the washer ⓑ (Fig. 3-12-1).
(4) Make sure that the thrust washer is attached to the gear TU1-A mounting shaft.
(5) Attach the gear TU1-A and fix with the cut washer ⓐ (Fig. 3-12-1)
(6) Attach the cassette housing.

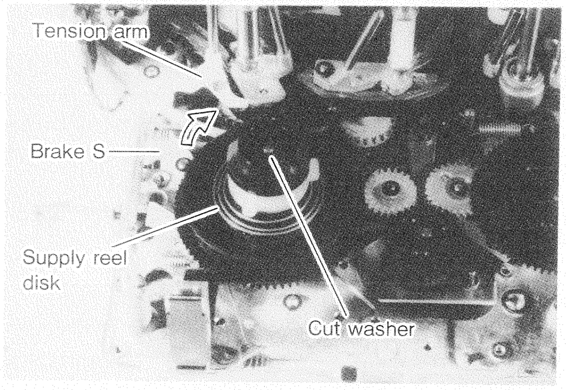


Fig.3 − 11 − 1

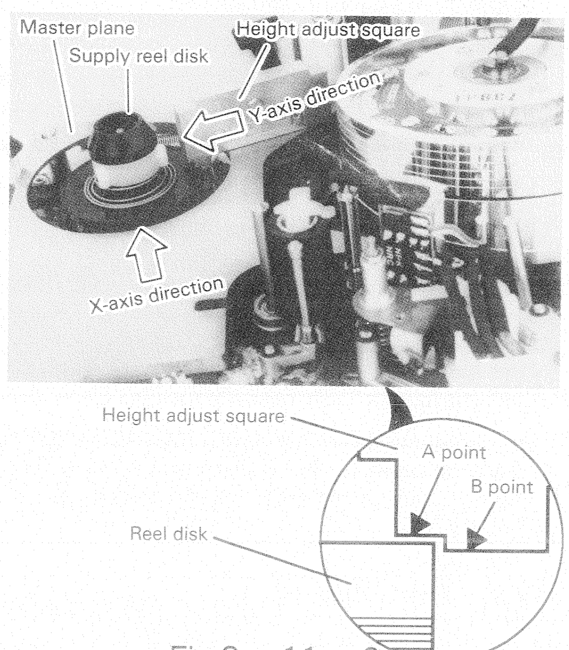


Fig.3 − 11 − 2

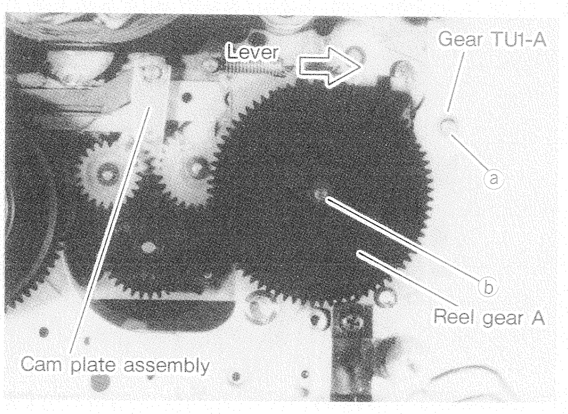


Fig.3 − 12 − 1

4-13 AC head replacement

4-13-1 Dismounting

(1) Keep the cassette housing under eject mode.
(2) Remove the fixing screw ⓐ (Fig. 3-13-1), and take the door guide A off the cassette housing.
(3) Remove the connector $\boxed{\text{AE}}$ on the PCB MDA.
(4) Take off the lead wires connected to the AC head from the lead wire holder. (Fig. 3-13-1)
(5) Remove the fixing screw ⓑ (Fig. 3-13-1) and take off the lead wire holder.
(6) Remove the nut S which is fixing the AC head assembly while holding the head assembly so as not to come in contact with the peripheral parts. (See Fig. 3-13-2).
(7) While pressing the AC arm spring, hold the AC head assembly upward to take if off the AC head base plate.
(8) Remove three screws (ⓒ, ⓓ, ⓔ: Fig. 3-13-3) which are fixing the AC head to the AC head arm and the AC spring, then take the AC head off the AC head arm.
(9) Remove the lead wires connected to the AC head.

4-13-2 Mounting

(1) Solder the lead wires to the AC head.
(2) With the flange screw ⓔ (Fig. 3-13-3) and the AC spring, attach the AC head to the AC arm

Note:
Edge of the flange screw ⓔ may tighten and fix the AC head in some cases. Move the AC head for trial to make sure that the head isn't fixed.

(3) Fix the AC head with two screws (ⓒ, ⓓ: Fig. 3-13-3) so that the mounting face of the AC head is kept parallel to the AC head arm.
(4) Attach the AC head assembly to the AC head base plate so that one end of the AC arm spring is hooked onto the AC head base plate and the other end onto the AC head arm. (See Fig. 3-13-2).
(5) Attach the nut S (Fig. 3-13-2)to the AC head assembly mounting shaft, and tighten to the point where the front end of the AC head arm (part A in Fig. 3-13-4) comes down to the bottom.

Note:
If the nut S is tightened over the point where the front end of the AC head arm comes to the bottom, the front end goes up in reverse.

(6) Turn the nut S 3/4 of a turn counter-clockwise.
(7) Attach the lead wire holder onto the AC head base plate, and bind the lead wires connected to the AC head with the lead wire holder.

Note:
When binding the lead wires, give allowance to the lead wires so that no load is applied to the AC head.

(8) Attach the door guide A.
(9) Connect the connector $\boxed{\text{AE}}$ to the connector on the PCB MDA.
(10) Practice adjustment of the AC head as described in Para. 5-4.

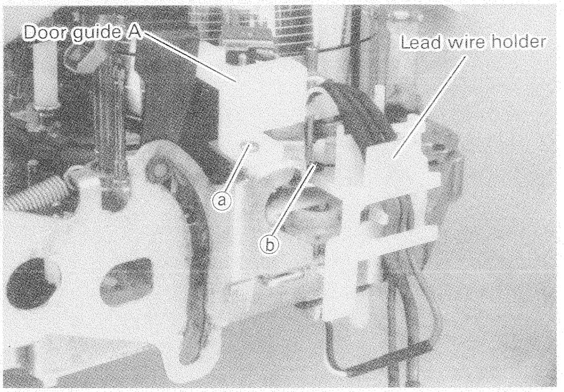


Fig.3 − 13 − 1

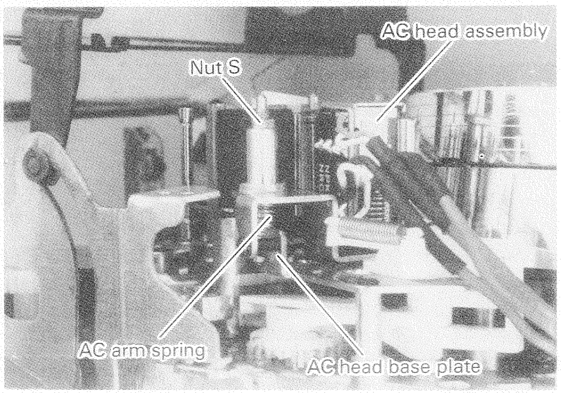


Fig.3 − 13 − 2

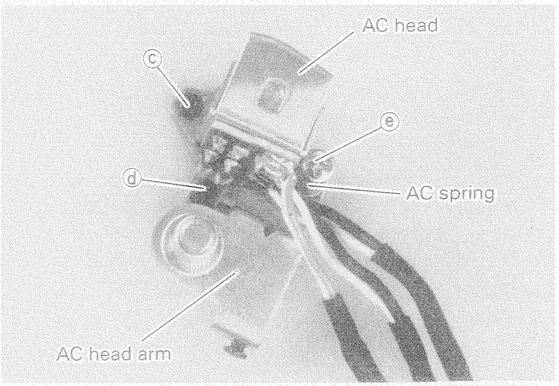


Fig.3 − 13 − 3

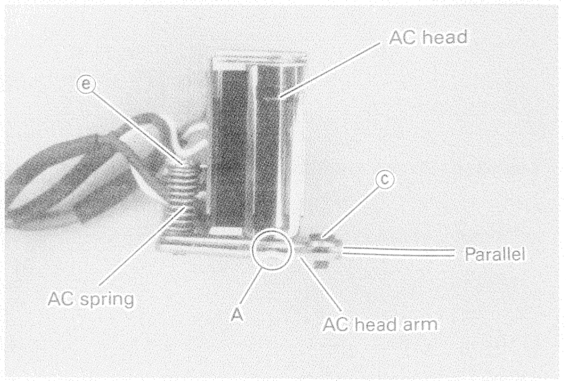


Fig.3 − 13 − 4

4-14 FE head & supply impedance roller replacement

4-14-1 Dismounting

(1) Remove the cassette housing.(See Para.4-1).
(2) Take off the gear LA3 from the rear side of the deck. (See Para. 4-2).
(3) Turn the main cam gear counter-clockwise to keep the tape guide under loading mode.
(4) Disconnect the connector AF on the PCB MDA.
(5) While pressing the upper impedance flange, take off the nylon nut which is fixing the FE head assembly and the supply impedance roller. (See Fig. 3-14-1).
(6) Take off the upper impedance flange, impedance roller, impedance sleeve and the lower impedance flange.
(7) Take off the FE spring, IMP washer, and the FE head arm assembly.
(8) Take off the lead wire of the FE head from the lead wire clamper.
(9) Remove the FE head fixing screw and take the FE head off the FE head arm.

4-14-2 Mounting

(1) Attach the FE head to the FE head arm and fix with the fixing screw. (See Fig. 3-14-2).
(2) With the clamper of the FE head, bind the lead wires of the FE head.
(3) Attach the FE head arm assembly onto the main plate. (See Fig. 3-14-1).
(4) Attach the IMP washer to the main plate so that the bottom of the IMP washer goes into the positioning hole on the main plate.
(5) Attach the FE spring, lower impedance flange, impedance sleeve, impedance roller and the upper impedance flange, then softly tighten the nylon nut.
(6) Hook one end of the FE spring onto the IMP washer, and the other end onto the FE head arm.
(7) Mount the master plane. (See Para.3 on Page 46.)
(8) Put a square for height adjustment (supply impedance roller measuring side : S mark) onto the master plane.
(9) Slide the height measuring part of the square to the edge of the lower impedance flange, and make sure that flange height is lower than A point of the square (higher one of measuring parts) and is higher than B point (lower one of measuring parts).
(10) If the result of the checking isn't satisfactory, adjust height by turning the nylon nut.
(11) Turn the main cam gear clockwise to switch the tape guide assembly to unloading mode.
(12) Attach the gear LA3 from the rear side of the deck.
(13) Attach the cassette housing.
(14) Connect the connector AF to the PCB MDA and bind the lead wires with the clamper.

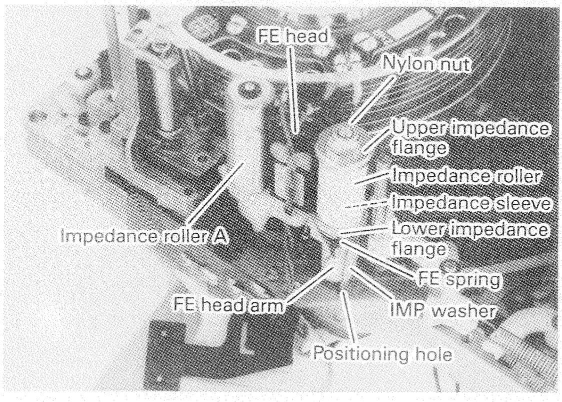

FE head
Nylon nut
Upper impedance flange
Impedance roller
Impedance sleeve
Lower impedance flange
FE spring
IMP washer
Impedance roller A
FE head arm
Positioning hole

Fig.3-14-1

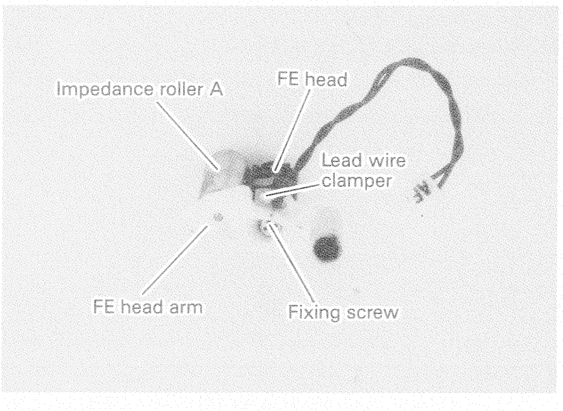

Impedance roller A
FE head
Lead wire clamper
FE head arm
Fixing screw

Fig.3-14-2

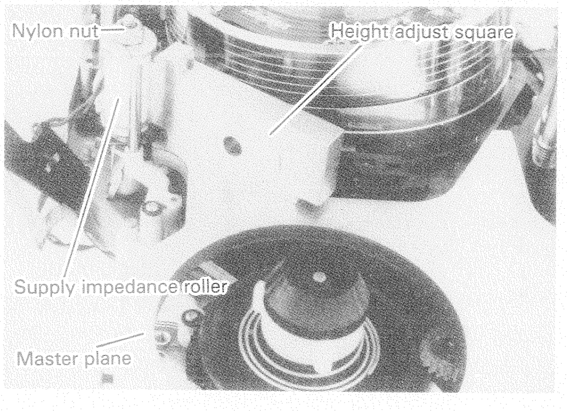

Nylon nut
Height adjust square
Supply impedance roller
Master plane

Fig.3-14-3

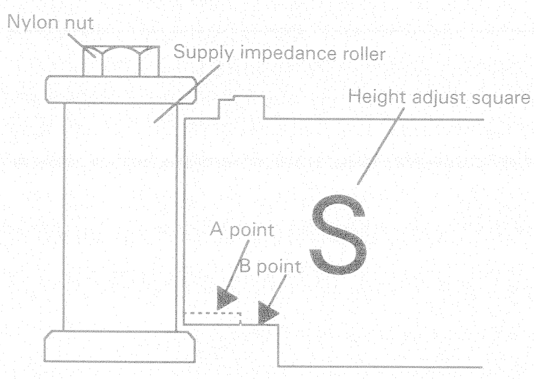

Nylon nut
Supply impedance roller
Height adjust square
A point
B point
S

Fig.3-14-4

4-15 Slant arm replacement

4-15-1 Dismounting

(1) Remove the cassette housing. (See Para. 4-1.)
(2) Take off the pinch roller cap and the pinch roller. (See 4 - 9).
(3) Take off the cut washer shown in Fig. 3-15-1, and remove the set arm LU, set arm SU and the spring AS.
(4) Disconnect the connector $\boxed{\text{AE}}$ on the PCB MDA.
(5) Remove three fixing screws (ⓐ, ⓑ, ⓒ : Fig. 3-15-1), and take the AC plate assembly from the main plate.
(6) Take off the set arm SL and LL. (See Fig. 3-15-2).
(7) Remove the cut washer for fixing the slant arm. (See Fig. 3-15-2.)
(8) Turn the cam gear SS counter-clockwise as shown in Fig. 3-15-3 and move the slant arm a little.
(9) Hold up the slant arm to take off the shaft.

4-15-2 Mounting

(1) Attach the slant arm to the shaft so that the slant arm gear and cam gear SS are positioned each other as illustrated in Fig. 3-15-3, then fix with the cut washer.
(2) Turn the cam gear SS clockwise to the point where the slant arm stops.
(3) Attach the set arm LL and SL to the shaft as shown in Fig. 3-15-2.
(4) Attach the AC plate assembly to the main plate, and fix with three fixing screws (ⓐ, ⓑ, ⓒ : Fig. 3-15-1).
(5) Attach the set arm SU and LU to the shaft, fix them with the cut washer, and attach the spring AS to the set arm SU and LU. (See Fig. 3-15-4).
(6) Attach the pinch roller and the pinch roller cap.
(7) Connect the connector $\boxed{\text{AE}}$ on the PCB MDA.
(8) Mount the cassette housing.

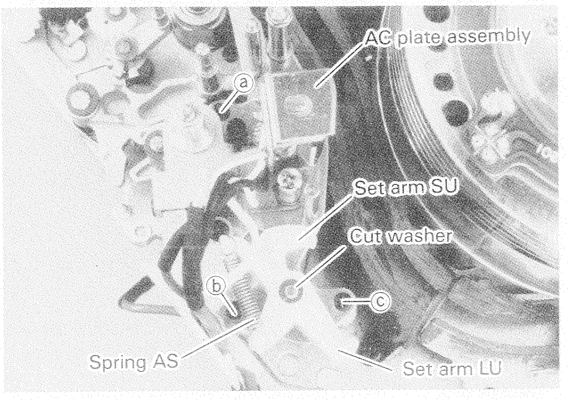

AC plate assembly
ⓐ
Set arm SU
Cut washer
ⓑ
ⓒ
Spring AS
Set arm LU

Fig.3 – 15 – 1

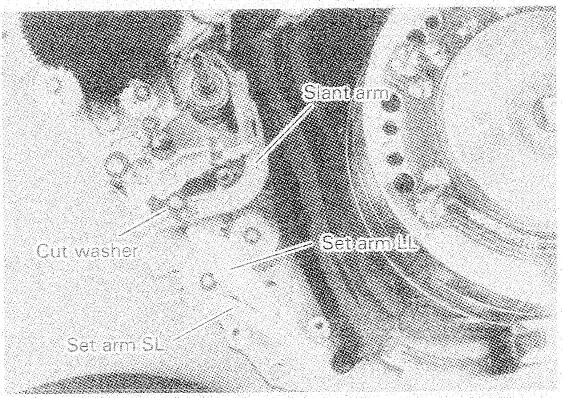

Slant arm
Cut washer
Set arm LL
Set arm SL

Fig.3 – 15 – 2

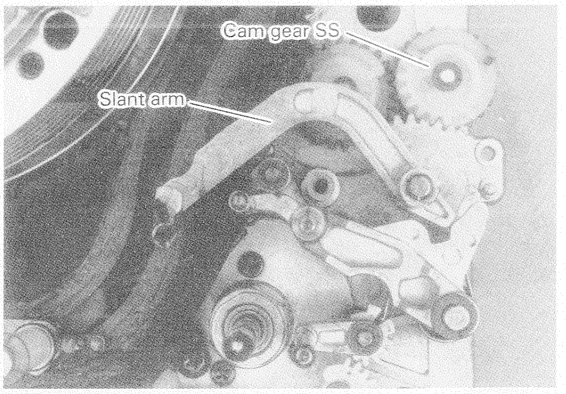

Cam gear SS
Slant arm

Fig.3 – 15 – 3

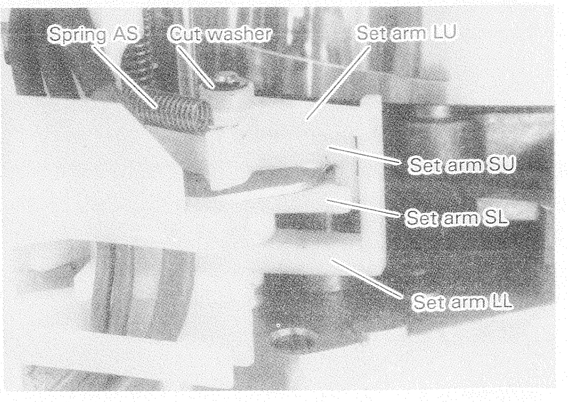

Spring AS
Cut washer
Set arm LU
Set arm SU
Set arm SL
Set arm LL

Fig.3 – 15 – 4

4-16 Takeup guide arm replacement

4-16-1 Dismounting

(1) Remove the cassette housing.
(2) Take off the cut washer which is fixing the Takeup guide arm. (See Fig. 3-16-1).
(3) While pressing the spring RP, hold the Takeup guide arm upward to take it off the main plate.

4-16-2 Mounting

(1) Attach the Takeup guide arm to the main plate so that the Takeup guide arm, Takeup guide gear, and spring RP are positioned relatively as shown in Fig. 3-16-2, then fix with the cut washer.
(2) Mount the cassette housing

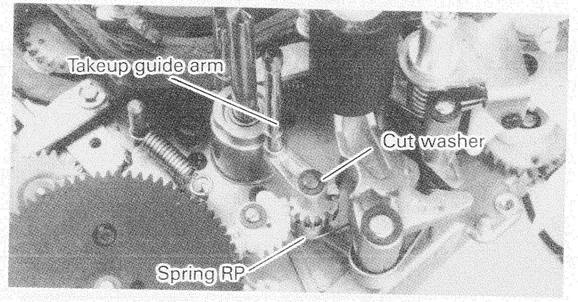

Takeup guide arm
Cut washer
Spring RP

Fig.3 – 16 – 1

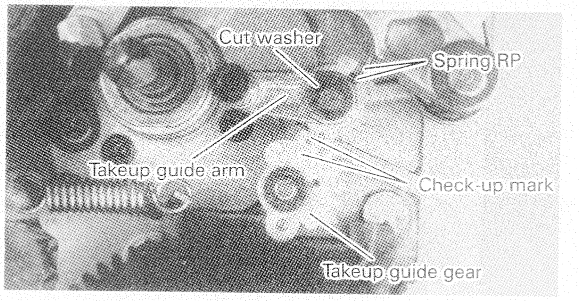

Cut washer
Spring RP
Takeup guide arm
Check-up mark
Takeup guide gear

Fig.3 – 16 – 2

4-17 Takeup guide pole replacement

4-17-1 Dismounting

(1) Remove the cassette housing.
(2) Take off the gear LA3 from the rear side of the deck.
(3) Turn the main cam gear counter-clockwise to switch the tape guide to loading mode.
(4) Take off the nut S which is fixing the Takeup guide pole.
(5) Take off the guide pole from the shaft.

4-17-2 Mounting

(1) Attach the guide pole to the shaft and fix with the nut S.
(2) Mount the master plane.
(3) Place the height adjusting square (Takeup guide pole measuring side: T mark) on the master plane.
(4) Slide the height measuring part of the square to the edge of the guide pole lower flange, and make sure that flange height is lower than A point of the square (higher one of measuring parts) and higher than B point (lower one of measuring parts).
(5) If result of the check isn't satisfacrory, adjust the height by turning the nut S.
(6) Apply thread-lock to the nut S.
(7) Turn the main cam gear clockwise to change the tape guide to unloading mode.
(8) Attach the gear LA3 from the rear side of the deck.
(9) Mount the cassette housing.

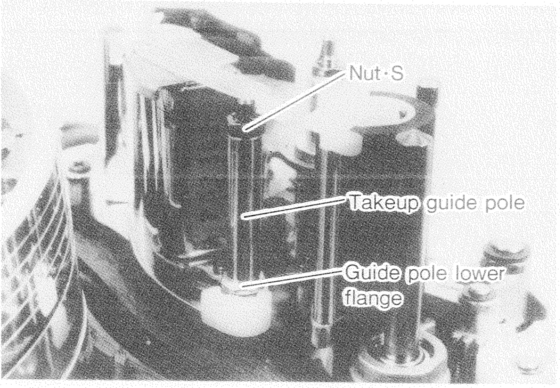

Nut·S
Takeup guide pole
Guide pole lower flange

Fig.3 – 17 – 1

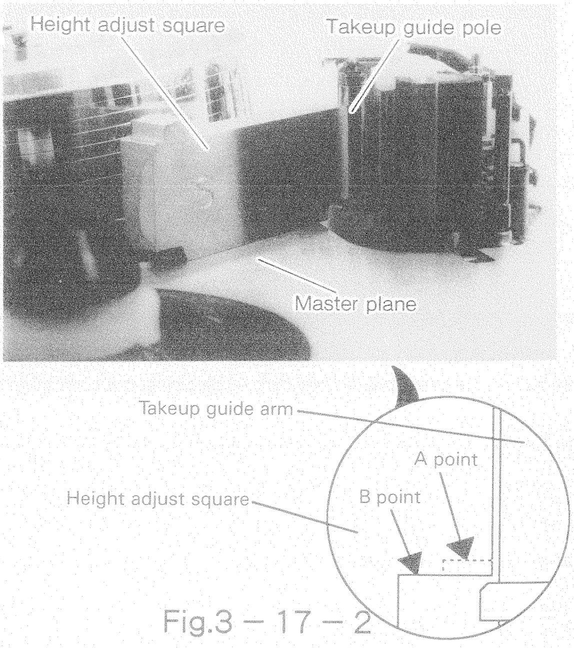

Height adjust square
Takeup guide pole
Master plane
Takeup guide arm
A point
Height adjust square
B point

Fig.3 – 17 – 2

4-18 Supply guide roller replacement

4-18-1 Dismounting

(1) Take off the clamp of the lead wires connected to the FE head. (See Fig. 3-18-1).
(2) Remove the tape end sensor fixing screw, and take the tape end sensor off the cassette housing carefully so that the FPC cable may not be damaged.
(3) Keep the cassette housing under eject mode.
(4) Turn the tension arm assembly clockwise a little, and slacken the set screw to the degree that the guide roller proper turns easily.
(5) Turn the guide roller counter-clockwise to tape it off the supply tape guide.

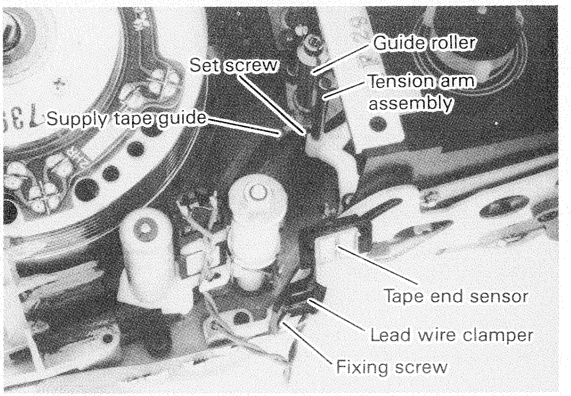


Fig.3 — 18 — 1

4-18-2 Mounting

(1) Attach the guide roller to the supply take guide, turn the roller clockwise to tighten a little, then turn 1-2/3 of a turn counter-clockwise.
(2) Turn the tension arm assembly clockwise a little and temporarily fix the guide roller lightly with the set screw.
(3) Attach the tape end sensor to the cassette housing and fix with the fixing screw.
(4) Bind the lead wires of the FE head with the clamper for the lead wires of the tape end sensor.
(5) Adjust height of the guide roller as described in Para. 5-3.

4-19 Takeup guide roller replacement

4-19-1 Dismounting

(1) Remove the cassette housing.
(2) Take off the gear LA3 from the rear side of the deck.
(3) Move the takeup tape guide to loading direction by about 1cm by turning the main cam gear counter-clockwise.
(4) Slacken the set screw to the degree where the guide roller proper turns easily.
(5) Turn the guide roller counter-clockwise to take if off the Takeup tape guide.

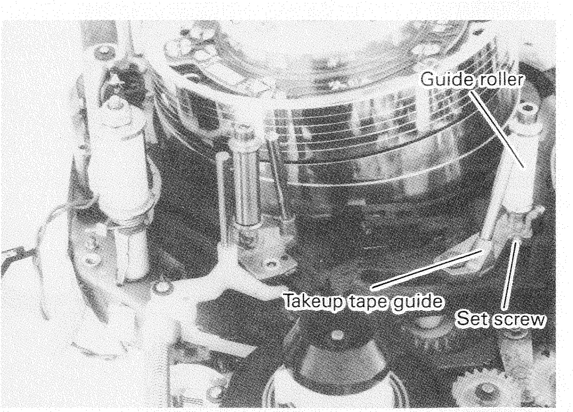


Fig.3 — 19 — 1

4-19-2 Mounting

(1) Attach the guide roller to the Takeup tape guide, tighten a little by turning clockwise, then turn 1-2/3 of a turn counter-clockwise.
(2) Fix the guide roller lightly with the set screw.
(3) Turn the main cam gear clockwise to switch the tape guide to unloading mode.
(4) Attach the gear LA3 from the rear side of the deck.
(5) Mount the cassette housing.
(6) Adjust guide roller height as described in Para. 5-3.

4-20 Supply & Takeup tape guide replacement

4-20-1 Dismounting

(1) Remove the cassette housing.
(2) Take off the drum assembly.
(3) Remove the gear LA3 from the rear side of the deck.
(4) Turn the main cam gear counter-clockwise to switch the supply & Takeup tape guide to loading mode.
(5) Take the LED holder from the guide slider. (See Fig. 3-20-1.)
(6) Remove six screws (ⓐ,ⓑ,ⓒ,ⓓ,ⓔ,ⓕ: Fig. 3-20-1) which are fixing the guide slider.
(7) Take off the cut washer which is connecting the Takeup tape guide with the ring unit TA.
(8) Remove the guide slider from the main plate while turning the FE head arm assembly counter-clockwise and the tension arm assembly clockwise.
(9) Turn the gear LA5 counter-clockwise to the degree that the supply & Takeup tape guide is disengaged from the tape guide stopper. (See Fig. 3-20-2.)
(10) Take off the supply & Takeup tape guide from the ring unit SA and TA.

4-20-2 Mounting

(1) Check and adjust outside dimensions of the supply & Takeup tape guide to the dimensions shown in Fig. 3-20-3.
(2) Attach the supply & Takeup tape guide to the ring unit SA and TA.
(3) Turn the gear LA5 clockwise and set the supply & Takeup tape guide at the loading position of the tape guide stopper.
(4) With a thin screw driver, hold up the ring unit TA and fix the takeup tape guide with the cut washer.
(5) Attach the guide slider to the main plate while turning the FE head arm assembly counter-clockwise and the tension arm assembly clockwise, and fix with 6 fixing screws (ⓐ,ⓑ,ⓒ,ⓓ,ⓔ,ⓕ: Fig. 3-20-1).
(6) Attach the LED holder to the guide slider.
(7) Turn the main cam gear clockwise to set the supply & Takeup tape guide to unloading mode.
(8) Attach the gear LA from the rear side of the deck.
(9) Attach the drum assembly.
(10) Attach the brush.
(11) Attach the PCB MDA.
(12) Mount the cassette housing.

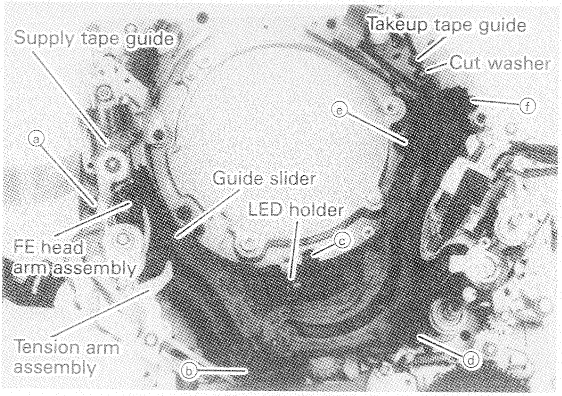

Supply tape guide
Takeup tape guide
Cut washer
ⓕ
ⓔ
ⓐ
Guide slider
LED holder
ⓒ
FE head arm assembly
Tension arm assembly
ⓑ
ⓓ

Fig.3 − 20 − 1

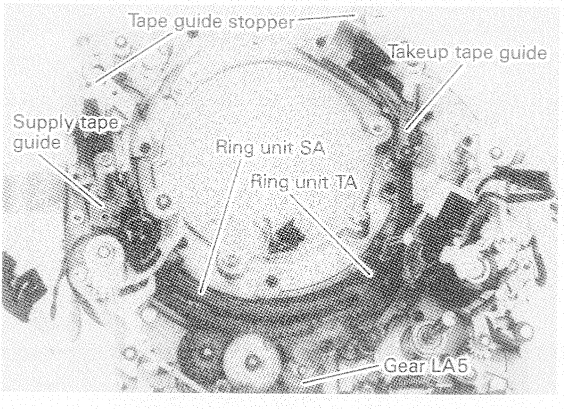

Tape guide stopper
Takeup tape guide
Supply tape guide
Ring unit SA
Ring unit TA
Gear LA5

Fig.3 − 20 − 2

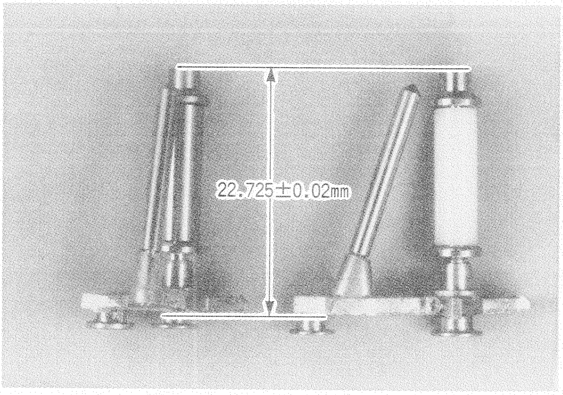

22.725±0.02mm

Fig.3 − 20 − 3

4-21 Positioning and mounting procedure of peripheral parts of main cam gear (Front side)

4-21-1 Attaching cam plate assembly and gear LA7

(1) Attach the cam plate assembly to the main plate and fix with five fixing screws (ⓐ, ⓑ, ⓒ, ⓓ, ⓔ: Fig. 3-21-1).

(2) Attach the gear LA7 to the main plate and fix with the cut washer.

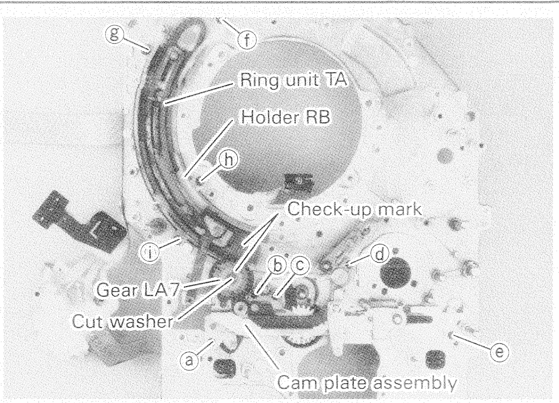

ⓖ
ⓕ
Ring unit TA
Holder RB
ⓗ
Check-up mark
ⓓ
ⓘ
ⓑ
ⓒ
Gear LA7
Cut washer
ⓐ
ⓔ
Cam plate assembly

Fig.3 − 21 − 1

4-21-2 Attaching the holder RB and ring unit TA

(1) Attach the ring unit TA to the holder RB, attach the holder RB to the main plate so that three positioning pins of the holder RB fit the positioning holes of the main plate, yet the check-up marks of the ring unit TA and the gear LA fit the check-up marks on the main plate, then fix with 4 fixing screws (ⓕ, ⓖ, ⓗ, ⓘ).

4-21-3 Attaching the holder RA

(1) Attach the holder RA to the main plate so that 3 positioning pins of the holder RA fit the positioning holes on the main plate, then fix with 3 fixing screws (ⓙ, ⓚ, ⓛ). (See Fig. 3-21-2.)

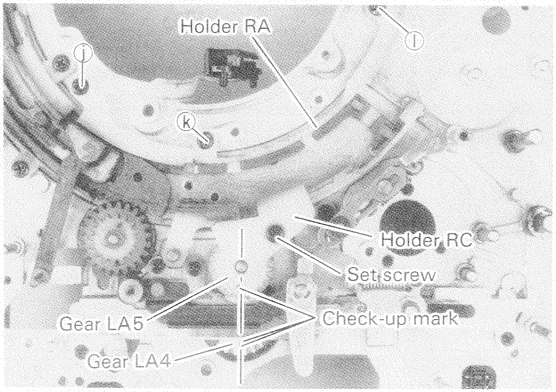

Holder RA
ⓛ
ⓙ
ⓚ
Holder RC
Set screw
Gear LA5
Check-up mark
Gear LA4

Fig.3 − 21 − 2

4-21-4 Attaching the gear LA5 and holder RC

(1) Fit the check-up marks of the gear LA4.

(2) While fixing the gear LA4, attach the gear LA5 to the main plate so that the check-up marks are fitted, then fix with the holder RC and the fixing screw.

4-21-5 Attaching the ring unit SA, ring roller and ring gear

(1) Slide the ring unit TA counter-clockwise to the extent that it doesn't go off the gear LA7. (See Fig. 3-21-3.)

(2) Attach the ring unit SA onto the holder RB, and fix with the ring roller, ring gear and two cut washers.

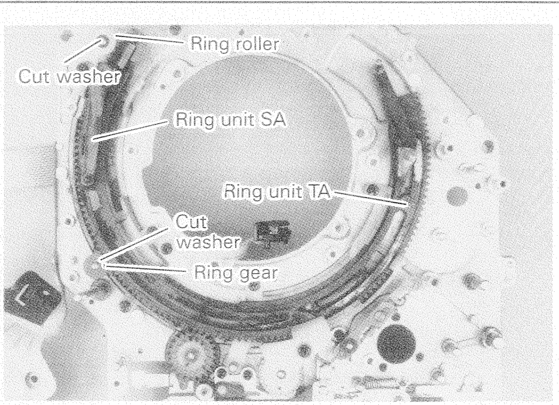

Ring roller
Cut washer
Ring unit SA
Ring unit TA
Cut washer
Ring gear

Fig.3 − 21 − 3

4-21-6 Attaching the gear LA6

(1) Slide the ring unit TA clockwise and the ring unit SA counter-clockwise respectively, and fit check-up mark of each to the check-up mark on the main plate. (See Fig. 3-21-4.)

(2) After making sure that the check-up marks of the gear LA5 and LA7 are matched, attach the gear LA6 to the main plate while fixing the ring unit TA, SA and the gear LA5, and fix with the cut washer.

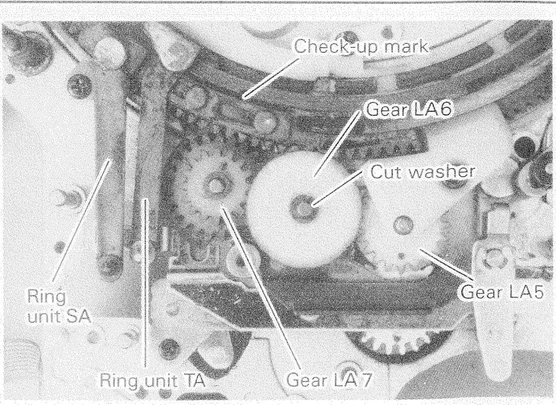

Check-up mark
Gear LA6
Cut washer
Gear LA5
Ring unit SA
Ring unit TA
Gear LA7

Fig.3 − 21 − 4

4-21-7 Attaching the cam gear SL and SS

(1) Attach the cam gear SL and SS to the main plate so that the check-up marks are fitted respectively, then fix with the cut washer. (See Fig. 3-21-5).

4-21-8 Attaching slant arm

(1) While fixing the cam gear SL and SS so as not to turn, attach the slant arm to the main plate keeping in contact with the left side of the shaft A slightly, then fix with the cut washer.

4-21-9 Attaching the pinch roller arm assembly

(1) Slide the lever A and the pinch roller in arrow direction. (See Fig. 3-21-5).

(2) Attach the pinch roller spring so that one end (shorter one) is hooked onto the main plate.

(3) Attach the pinch roller arm assembly to the main plate so that the other end (longer one) of the pinch roller spring is hooked by the pinch roller arm assembly, then fix with the cut washer. (See Fig. 3-21-6).

(4) Attach the pinch rod to the pinch roller arm assembly, and fix with the cut washer.

4-21-10 Attaching the Takeup guide arm and Takeup guide gear

(1) Turn the cam gear SS clockwise to the point where the slant arm comes to a stop. (See Fig. 3-21-7).

(2) Match the check-up marks on the cam plate assembly.

(3) Attach the spring RP to the main plate so that one end (horizontal side) is set on the hook (commonly used for the pinch roller spring) on the main plate. (See Fig. 3-21-8).

(4) Attach the Takeup guide arm and the Takeup guide gear onto the main plate so that their check-up marks are fitted and the other end of the spring RP (vertical side) is hooked by the notch of the Takeup guide arm, then fix with the cut washer.

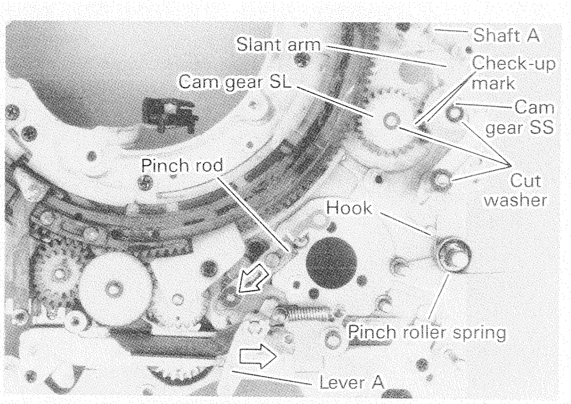

Slant arm
Shaft A
Check-up mark
Cam gear SL
Cam gear SS
Cut washer
Pinch rod
Hook
Pinch roller spring
Lever A

Fig.3 − 21 − 5

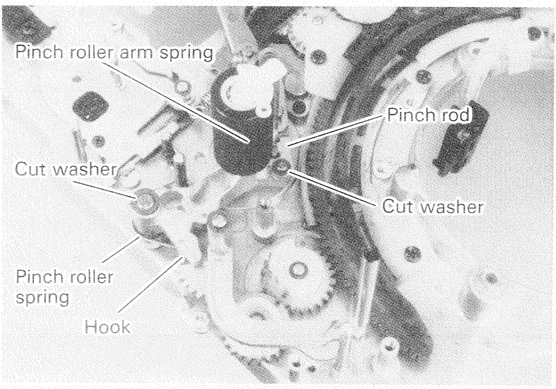

Pinch roller arm spring
Pinch rod
Cut washer
Cut washer
Pinch roller spring
Hook

Fig.3 − 21 − 6

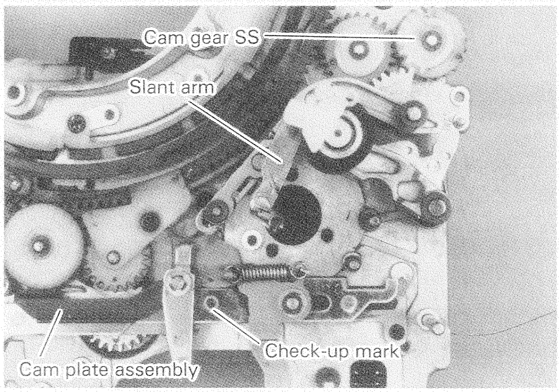

Cam gear SS
Slant arm
Cam plate assembly
Check-up mark

Fig.3 − 21 − 7

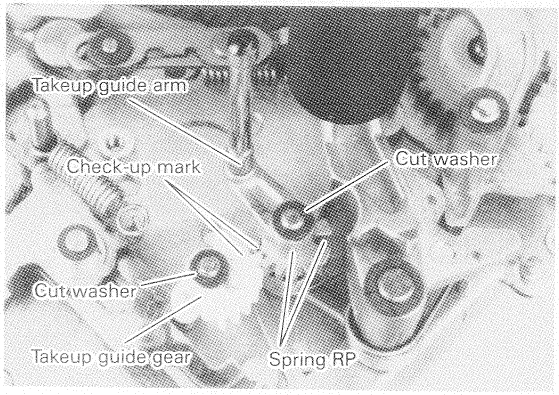

Takeup guide arm
Check-up mark
Cut washer
Cut washer
Takeup guide gear
Spring RP

Fig.3 − 21 − 8

4-21-11 Attaching the supply & Takeup tape guide stopper

(1) Attach the supply tape guide stopper to the main plate so that the positioning hole matches the positioning pin, then fix with two fixing screws (ⓐ, ⓑ).(See Fig.3-21-9).

(2) Attach the Takeup tape guide stopper to the main plate so that the positioning hole matches the positioning pin, then fix with two fixing screws (ⓒ, ⓓ).

4-21-12 Attaching the supply & Takeup tape guide assembly

(1) By turning the gear LA5 clockwise, move the ring unit TA and SA to the position where the supply & Takeup tape guide assembly can be attached easily. (See Fig. 3-21-9).

(2) Attach the supply & Takeup tape guide assembly to respective mounting pins.

(3) Slide the lever A to the right. (This is because the pinch rod connected to the pinch roller arm slides to the side of lever A when the tape guide assembly is set at the loading position).

(4) Slide the lever B to the right to turn the Takeup guide arm clockwise. (This is because the pinch roller arm turns to the side of Takeup guide arm when the tape guide assembly is set at the loading position).

(5) Turn the gear LA5 clockwise and set the supply & Takeup tape guide assembly onto respective tape guide stopper.

(6) Hold up the ring unit TA with a fine screw driver and fix the Takeup tape guide with the cut washer.

4-21-13 Attaching the guide slider assembly

(1) Attach the guide slider to the main plate, and fix with 6 fixing screws (ⓐ, ⓑ, ⓒ, ⓓ, ⓔ, ⓕ : Fig. 3-21-10).

(2) Attach the LED holder to the guide slider.

4-21-14 Attaching the set arm LL and SL

(1) Turn the gear LA5 counter-clockwise to change the supply & Takeup tape guide to unloading mode.

(2) Attach the set arm LL and SL to the main plate. (See Fig. 3-21-11).

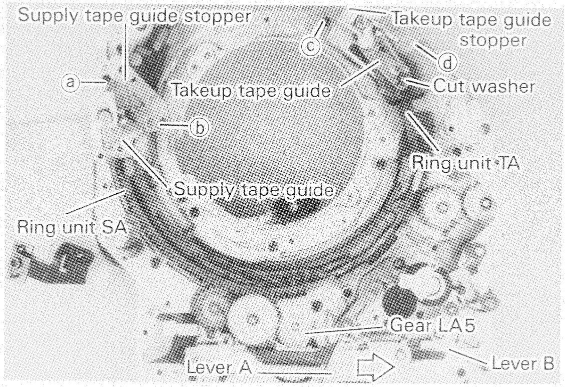

Supply tape guide stopper
Takeup tape guide stopper
ⓒ
ⓐ
ⓓ
Takeup tape guide
Cut washer
ⓑ
Ring unit TA
Supply tape guide
Ring unit SA
Gear LA5
Lever A
Lever B

Fig.3 − 21 − 9

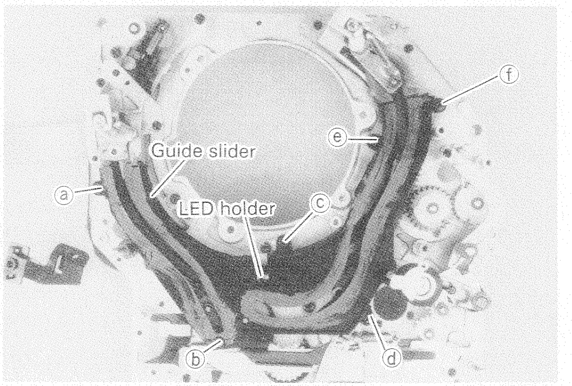

ⓕ
ⓔ
Guide slider
ⓐ
LED holder
ⓒ
ⓑ
ⓓ

Fig.3 − 21 − 10

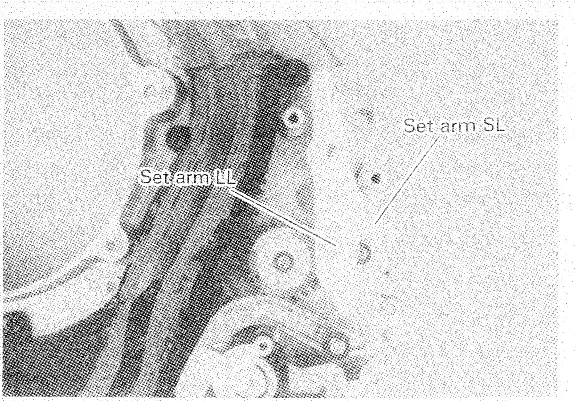

Set arm SL
Set arm LL

Fig.3 − 21 − 11

4-21-15 Attaching AC plate assembly

(1) Turn the gear LA5 clockwise to change the supply & Takeup tape guide to loading mode.

(2) Attach the AC plate assembly to the main plate and fix with 3 fixing screws (ⓐ, ⓑ, ⓒ : Fig. 3-21-12).

Note:
Attach the fixing screws in the order of ⓒ, ⓐ, and ⓑ.

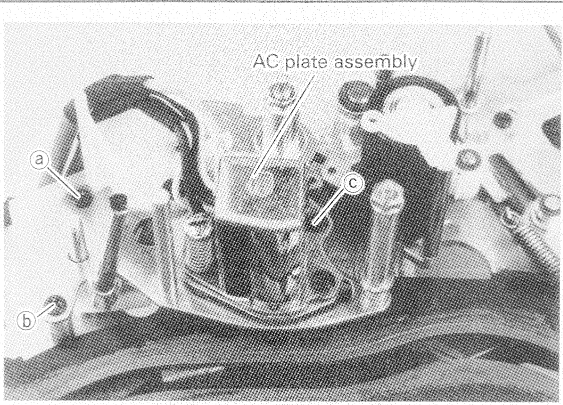

AC plate assembly
ⓐ
ⓒ
ⓑ

Fig.3 – 21 – 12

4-21-16 Attaching set arm SU LU, and spring AS

(1) Attach the set arm SU, LU and the spring AS, then fix with the cut washer. (See Fig. 3-21-13.)

Note:
Attach them so that the top end of the set arm SU goes into the notch at the top of the set arm SL.

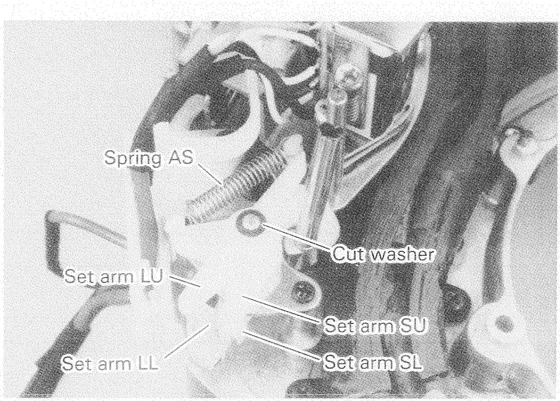

Spring AS
Cut washer
Set arm LU
Set arm SU
Set arm LL
Set arm SL

Fig.3 – 21 – 13

4-21-17 Attaching FE head and supply impedance roller

(1) Attach the FE head arm assembly to the main plate. (See Fig. 3-21-14).

(2) Attach the IMP washer to the main pate in a manner that the bottom of the IMP washer goes into the positioning hole on the main plate.

(3) Attach the FE spring, lower impedance flange, impedance sleeve, impedance roller and the upper impedance flange, and tighten the nylon nut softly.

(4) Set one end of the FE spring onto the IMP washer and the other end onto the FE head arm.

(5) Mount the master plane.

(6) Put a square for height measurement (supply impedance roller measuring side : S mark) onto the master plane. (See Fig. 3-14-3, Page 55.)

(7) Slide the height measuring portion of the square to the edge of the lower impedance flange, and make sure that flange height is lower than A point of the square (higher one of the measuring parts) and higher than B point (lower one of the measuring parts) (See Fig. 3-21-15.)

(8) If the result of above check isn't favourable, adjust the height by turning the nylon nut.

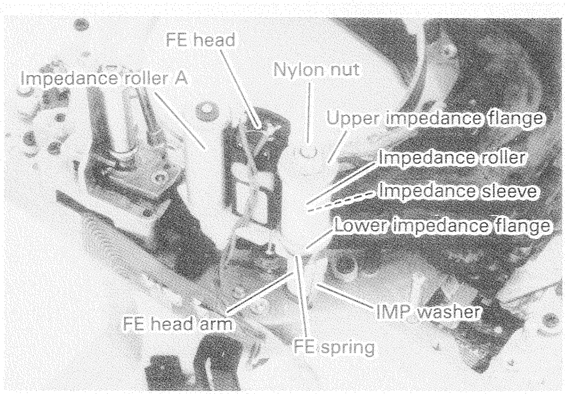

FE head
Impedance roller A
Nylon nut
Upper impedance flange
Impedance roller
Impedance sleeve
Lower impedance flange
FE head arm
IMP washer
FE spring

Fig.3 – 21 – 14

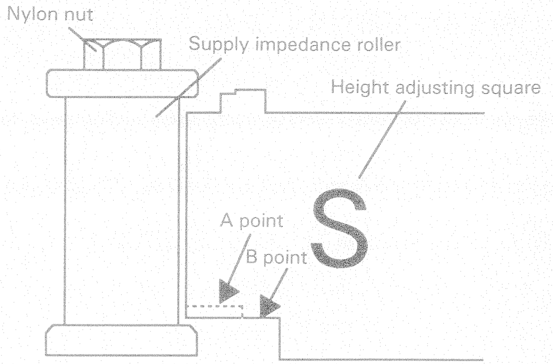

Nylon nut
Supply impedance roller
Height adjusting square
A point
B point
S

Fig.3 – 21 – 15

4-21-18 Attaching tension arm assembly

(1) Attach the thrust washer to the tension arm assembly (arm side) mounting shaft. (See Fig. 3-21-16.)

(2) Attach the tension arm assembly to the main plate so that the positioning hole of the tension arm assembly (adjusting side) matches the positioning pin of the main plate, then fix with the fixing screw.

4-21-19 Attaching brake S

(1) Make sure that braking performance isn't lowered by any oil deposited onto the face of the brake S which comes in contact with the reel disk.

(2) Attach the brake S onto the main plate and fix with the cut washer. (See Fig. 3-21-16).

4-21-20 Attaching tension spring and spring S

(1) Attach the tension spring to both ends of the tension arm assembly (arm side and adjusting side). (See Fig. 3-21-16).

(2) Attach the spring S to the brake S and the tension arm assembly (adjusting side).

4-21-21 Attaching supply reel disk

(1) Attach the thrust washer to the reel disk mounting shaft. (See Fig. 3-21-16).

(2) Move the brake S in arrow direction and turn the tension arm clockwise by about 90° .

(3) Attach the reel disk to the reel disk mounting shaft.

(4) Make sure that the reel disk turns smoothly while the brake S and the tension arm are being moved.

(5) Mount the master plane.

(6) Place the square for height adjustment (reel disk measuring side: REEL - M mark) onto the master plane.

(7) Slide the height measuring part of the square to the edge of the reel disk, and make sure that the reel disk turns smoothly at A point of the square (higher one of the measuring parts) and doesn't turn at B point (lower one of the measuring parts). Check it in two directions of X-axis and Y-axis.

(8) If the result of the above check isn't favorable, adjust by changing number of the thrust washers (Parts No.552C001020) attached under the reel disk.

(9) Fix the reel disk with the cut washer.

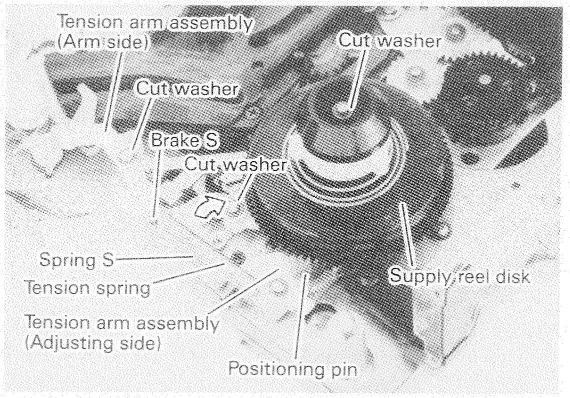

Tension arm assembly
(Arm side)
Cut washer
Cut washer
Brake S
Cut washer
Spring S
Tension spring
Tension arm assembly
(Adjusting side)
Positioning pin
Supply reel disk

Fig.3 – 21 – 16

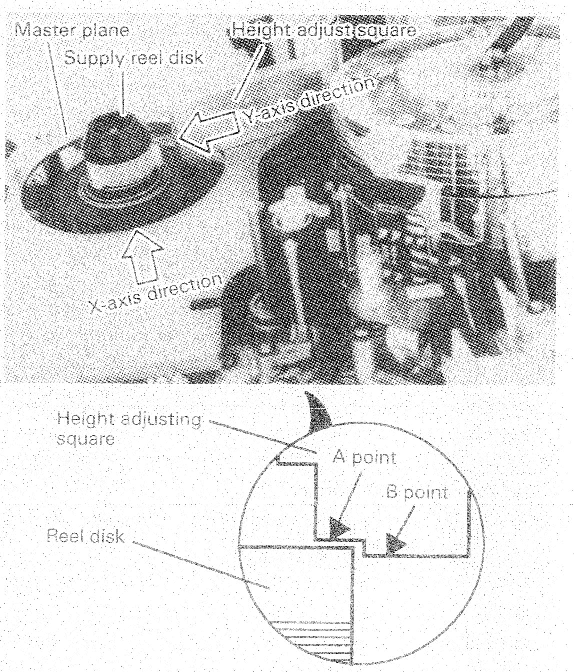

Master plane
Supply reel disk
Height adjust square
Y-axis direction
X-axis direction
Height adjusting square
A point
B point
Reel disk

Fig.3 – 21 – 17

4-21-22 Attaching reel gear A

(1) Attach the thrust washer to the reel gear A mounting shaft. (See Fig. 3-21-18).

(2) Move part ⓐ of the cam plate assembly in arrow direction a little, attach the reel gear A onto the main plate , then fix with the cut washer.

4-21-23 Attaching gear TU1-A

(1) Attach the thrust washer to the gear TU1-A mounting shaft. (See Fig. 3-21-18).

(2) Attach the gear TU1-A onto the main plate in a manner that the gear of the gear TU1-A is meshed with the gear of the reel gear A, then fix with the cut washer.

4-22 Positioning and attaching procedure of peripheral parts of main cam gear (rear side)

4-22-1 Attaching main cam gear and gear LA2

(1) Turn the gear LA5 counter-clockwise to change the supply & Takeup tape guide to unloading mode. (See Fig. 3-22-1).

(2) Slide the lever A to left and match the check-up mark of the cam plate assembly.

(3) Attach the main cam gear onto the main plate so that the check-up mark on the main cam gear matches the check-up mark on the main plate, then fix with the cut washer. (See Fig. 3-22-2.)

(4) Attach the gear LA2 onto the main plate, and fix with the cut washer.

4-22-2 Attaching switch lever A and switch spring A

(1) Attach the switch lever A onto the main plate.

(2) Attach the switch spring A to the switch lever A and the PCB sensor (reel gear A rotary sensor).

4-22-3 Attaching eject lever assembly

(1) Insert the mounting shaft of the eject lever assembly into the mounting hole on the main plate a little. (See Fig. 3-22-3).

(2) Adjust position of the pin of the eject lever assembly so that the pin goes into the groove of the main cam gear.

(3) Adjust position of the left side mounting hole of the eject lever assembly, attach the assembly to the main plate, then fix with the cut washer.

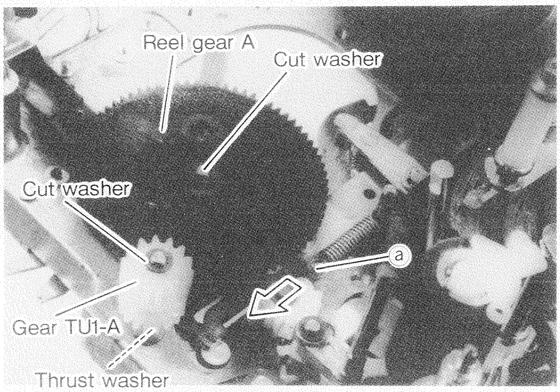

Reel gear A
Cut washer
Cut washer
a
Gear TU1-A
Thrust washer

Fig.3 − 21 − 18

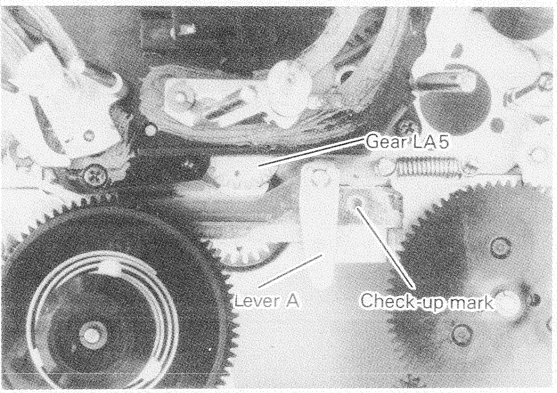

Gear LA5
Lever A
Check-up mark

Fig.3 − 22 − 1

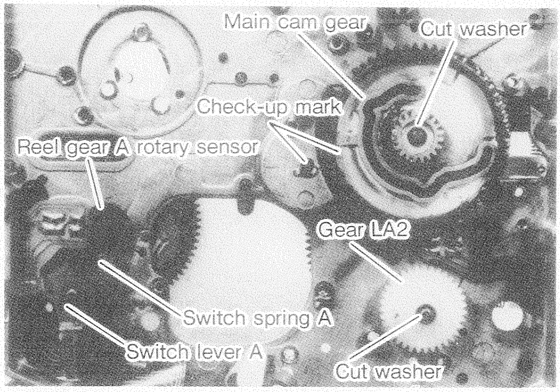

Main cam gear
Cut washer
Check-up mark
Reel gear A rotary sensor
Gear LA2
Switch spring A
Switch lever A
Cut washer

Fig.3 − 22 − 2

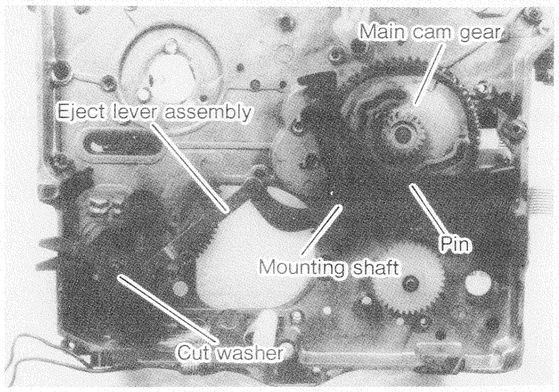

Main cam gear
Eject lever assembly
Pin
Mounting shaft
Cut washer

Fig.3 − 22 − 3

4-22-4 Attaching reel idler

(1) Attach the reel idler onto the main plate in a manner that two positioning holes match two positioning pins of the main plate, then fix temporarily with two fixing screws (ⓐ, ⓑ : Fig. 3-22-4).

4-22-5 Attaching loading motor assembly

(1) Attach the loading motor assembly onto the main plate so that the gear LA1 mounting shaft attached to the loading motor assembly goes into the mounting hole on the main plate.

(2) Fix the loading motor assembly with the fixing screw ⓒ (Fig. 3-22-4) and the cut washer (see Fig. 3-22-5).

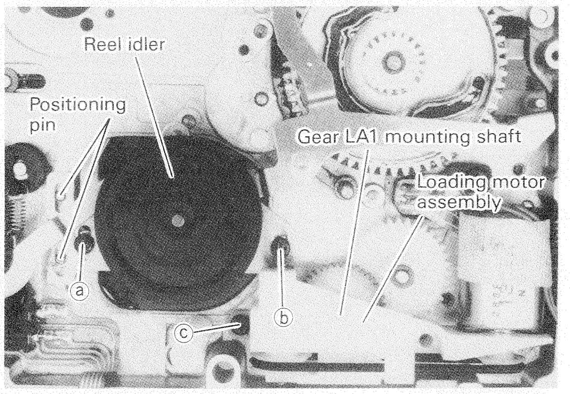

Reel idler
Positioning pin
Gear LA1 mounting shaft
Loading motor assembly
ⓐ
ⓒ
ⓑ

Fig.3 – 22 – 4

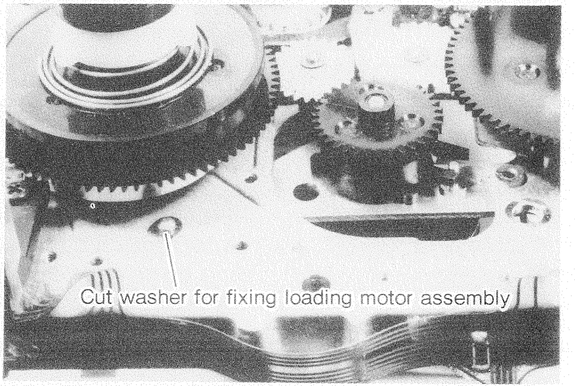

Cut washer for fixing loading motor assembly

Fig.3 – 22 – 5

4-22-6 Attaching gear LA3

(1) Attach the gear LA3 to the main plate and fix with the cut washer (Fig. 3-22-6).

Note:

It can be attached easily by moving the main cam gear a little.

4-22-7 Attaching capstan motor

(1) Attach the capstan motor to the main plate from the rear side of the plate. (See fig. 3-22-6).

(2) From the front side of the main plate, fix the capstan motor with 3 fixing screws (ⓒ, ⓓ, ⓔ : Fig. 3-22-7) while holding the capstan motor firmly.

4-22-8 Attaching SYNC belt

(1) Attach the SYNC belt to the capstan motor and the reel idler. (See Fig. 3-22-6).

(2) Slide the reel idler in arrow direction to stop and fix with two fixing screws (ⓐ, ⓑ : Fig. 3-22-6).

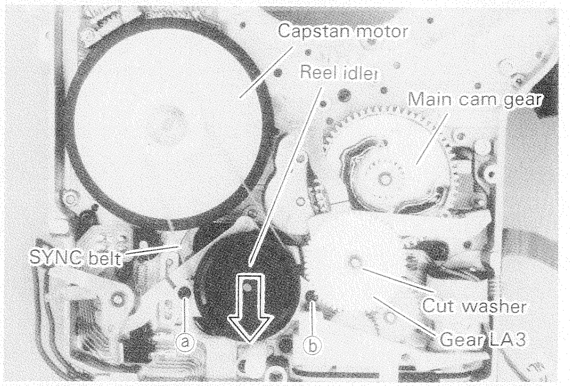

Capstan motor
Reel idler
Main cam gear
SYNC belt
Cut washer
Gear LA3
ⓐ
ⓑ

Fig.3 – 22 – 6

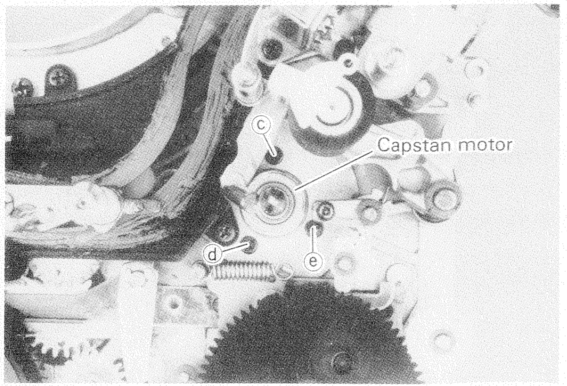

ⓒ
Capstan motor
ⓓ
ⓔ

Fig.3 – 22 – 7

4-22-9 Attaching capstan brake

(1) Attach the capstan brake to the main plate so that the positioning pin matches the positioning hole on the main plate, and fix with the fixing screw ⓐ (Fig. 3-22-8).

4-22-10 Attaching mode switch

(1) Match the check-up mark of the mode switch. (See Fig. 3-22-9).

(2) Perform fine adjustment by turning the gear of the mode switch to the following conducting state between the common terminal of the mode switch and each terminal while checking with a tester.

Note:

Use a tester of × 1000 range.

P0 ..... Conducting
P1 ..... Conducting
P2 ..... Open
P3 ..... Conducting

(3) Attach the mode switch onto the main plate so that the gear is geared with the gear (centre side) of the main cam gear while paying attention so as not turn the mode switch gear, and fix with two fixing screws (ⓑ, ⓒ : Fig. 3-22-8).

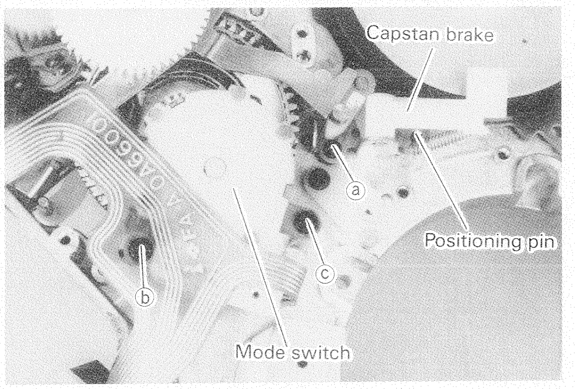

Capstan brake
ⓐ
Positioning pin
ⓒ
ⓑ
Mode switch

Fig.3 – 22 – 8

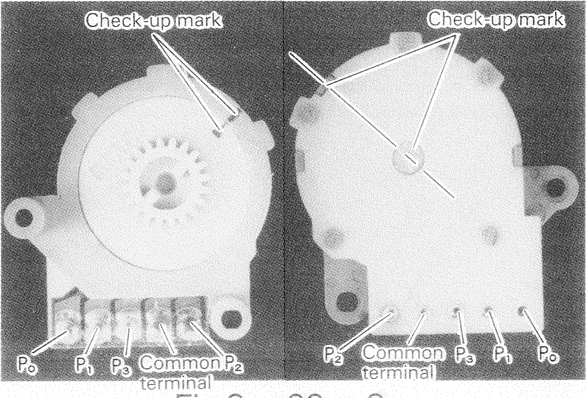

Check-up mark
Check-up mark
P0
P1
P3
Common terminal
P2
P2
Common terminal
P3
P1
P0

Fig.3 – 22 – 9

4-22-11 Attaching cam gear hold plate and eject lever hold plate

(1) Match the positioning pin of the cam gear hold plate to the positioning hole on the main plate.

(2) Turn the cam gear hold plate counter-clockwise around the positioning pin to attach onto the main plate, then fix with the fixing screw ⓐ (Fig. 3-22-10).

(3) Attach the eject lever hold plate onto the main plate, and fix with the fixing screw ⓑ (Fig. 3-22-10).

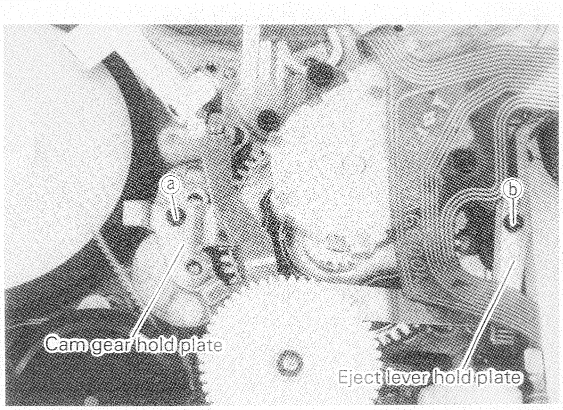

ⓐ
ⓑ
Cam gear hold plate
Eject lever hold plate

Fig.3 – 22 – 10

5. ADJUSTMENT

Note :

Refrain from operating the eject lever while keeping a cassette tape inserted into the cassette housing and keeping the deck under loading mode.

5-1 Back tension & Tension pole position adjustment

Before starting adjustment, keep a self-recording tape for a couple of minutes to warm up the reel disk and the travel system.

(1) Turn to playback mode.
(2) Make sure that the left side edge of the tension lever position check unit is within the range of the position check mark on the guide slider.
(3) If the result of the above checking isn't favourable, adjust position by turning the tension pole position adjust screw.
(4) Set a back tension measuring jig and change the mode to playback.
(5) Make sure that the left side edge of the tension lever position check unit is within the range of the position check mark on the guide slider.
(6) After making sure that the tape runs in stable condition, read the indication on the back tension measuring jig and make sure that the reading is within the specified range, 27 ± 3g/cm.
(7) If the reading is outside the specified range, change the tension spring and check again.
(8) Make sure that the tape runs under stable condition and indication on the back tension measuring jig varies only within the range of 4g/cm.
(9) If back tension varies beyond the range of 4g/cm, the cause is deflection or flaw on the reel desk or others. Check and repair the defective unit.
(10) After completing adjustment, apply thread-lock to the tension pole position adjust screw.

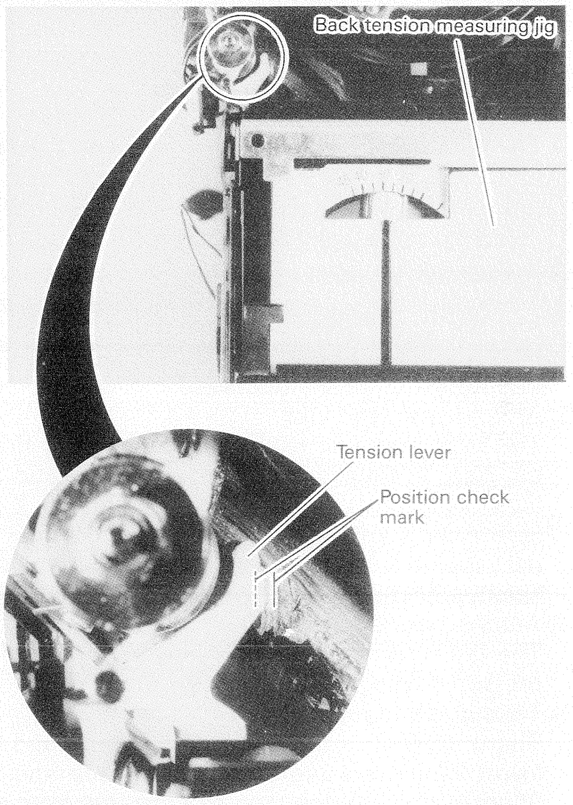


Fig.4 – 1 – 1

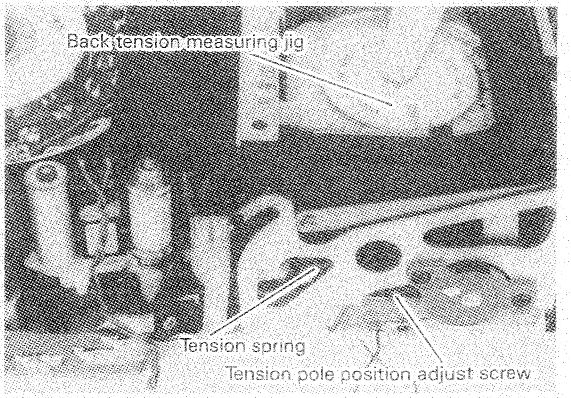

Back tension measuring jig
Tension spring
Tension pole position adjust screw

Fig.4 – 1 – 2

5-2 Tape run system and deck motion checking and adjustment

Note :
Please clean the deck prior to this adjustment.

5-2-1 Checking tape loading motion

(1) Make sure that the lower end of the tape is not damaged or by the head tip, when loading and unloading are repeated at the tape read unit.

5-2-2 Playback mode check

(1) Supply impedance roller
There shall be a gap allowed between the tape and the upper flange and no gap between the tape and the lower flange, and the tape shall be free from any folding or crease.

(2) Supply guide roller
There shall be a gap allowed between the tape and the upper flange and no gap between the tape and the upper flange, yet the tape must be free from any folding or crease.

(3) Around tape lead inlet
The tape lead unit shall be free from any riding on, gap, folding, or crease of the tape,and the tape shall not be caught by the head tip. If the tape runs above the drum lead path,a "pit-a-pat" sound is generated because the video head catches the tape edge.

(4) Around tape lead outlet
The tape lead unit shall be free from any riding on, gap, folding or crease of the tape.

(5) Takeup guide roller
There shall be a gap between the tape and the lower flange, no gap between the tape and the upper flange, yet the tape shall be free from any folding or crease.

(6) Takeup guide pole
There shall be no gap between the tape and the lower flange, yet the tape shall be free from any folding or crease.

(7) Takeup guide arm
there shall be a gap allowed to the tape at the point of the upper flange and of the lower flange.

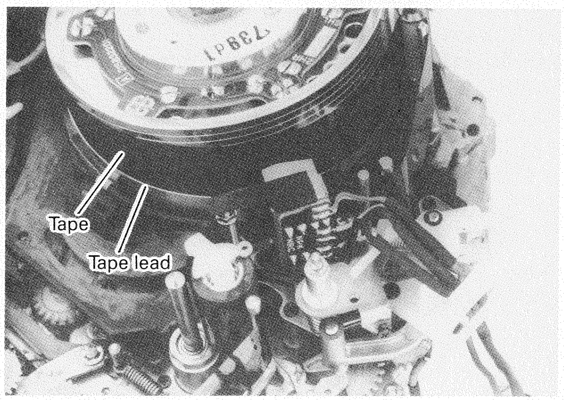

Tape
Tape lead

Fig.4 − 2 − 1

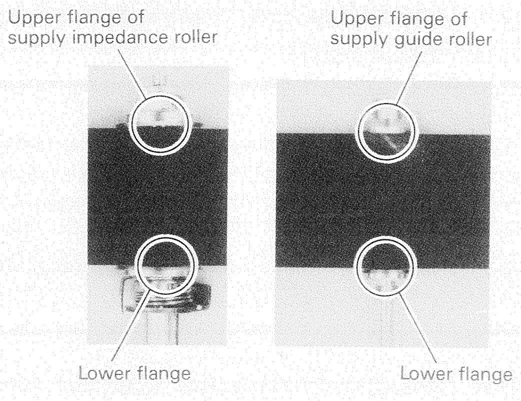

Upper flange of supply impedance roller
Upper flange of supply guide roller
Lower flange
Lower flange

Fig.4 − 2 − 2

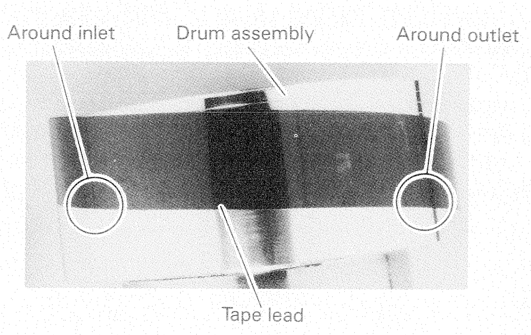

Around inlet
Drum assembly
Around outlet
Tape lead

Fig.4 − 2 − 3

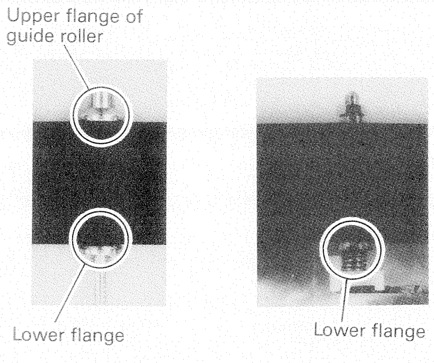

Upper flange of guide roller
Lower flange
Lower flange

Fig.4 − 2 − 4

5-2-3 AC head rough adjustment

(1) Playback a self-recording tape.

(2) Check running condition of the tape near the Takeup guide pole.

(3) Adjust by turning the AC head inclination adjust screw ⓐ (Fig. 4-2-6) so that the no gap is allowed between the tape and the lower flange, and that any fold mark or crease is eliminated from the tape.

Note:
When the AC head inclination adjust screw ⓐ is turned, azimuth of the AC head changes. To adjust inclination of AC head, it is necessary to correct azimuth by turning the azimuth adjust screw ⓑ. (See Fig. 4-2-6.)

A) If tape position is high to the Takeup guide pole, turn the AC head inclination adjust screw ⓐ (Fig. 4-2-6) clockwise to adjust the position.

B) If tape position is low to the Takeup guide pole, turn the AC head indlination adjust screw ⓐ (Fig. 4-2-6) counter-clockwise to adjust the position.

(4) While checking visually, adjust height of the AC head by turning the nut ⓒ (Fig. 4-2-6) to the extent that the audio head upper edge of the AC head is slightly seen above the tape upper edge (0.1mm max. : Fig. 4-2-7).

(5) After completing above adjustment, proceed to AC head adjustment (azimuth adjustment in particular).

(6) After repeating loading and unloading of the tape, make sure there is a gap allowed between the tape and the upper flange of the Takeup guide pole and no gap is allowed between the tape and the lower flange, and that the tape is free from any folding or crease.

(7) If the result of the above check isn't favourable, repeat procedure from (2) to (6) above.

Note:
If the adjust screws ⓐ, ⓑ and ⓓ (Fig. 4-2-6) are adjusted in this case, thread lock shall be applied to the adjust screws after completing the adjustment. Be careful, at this time, so that no thread lock is deposited onto the tape run system.

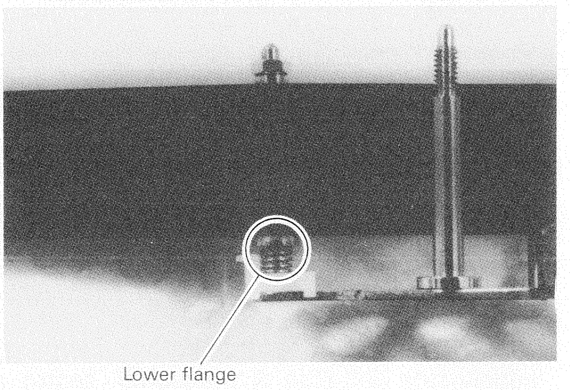


Fig.4 - 2 - 5

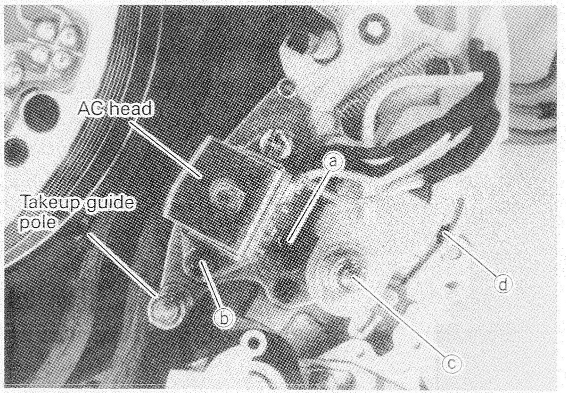


Fig.4 - 2 - 6

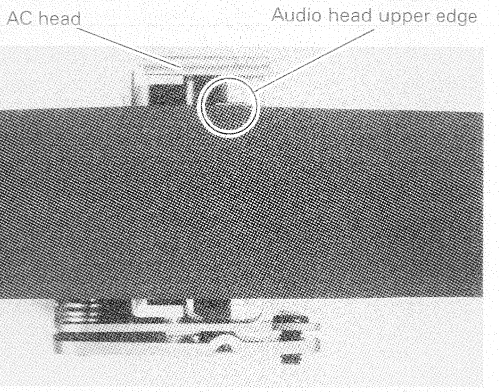


Fig.4 - 2 - 7

5-3 Guide roller height adjustment

Note:
Checking and adjustment of the tape run system should have been completed prior to this height adjustment.

(1) Playback staircase (2H mode) of the alignment tape.

(2) Connect an oscilloscope to TP2A (PCB SIGNAL) and apply external trigger (– slope) by TP5A.

(3) Turn the tracking to manual mode, and make sure that amplitude level of FM waveform at the supply side (left side of waveform), centre, and Takeup side (right side of waveform) changes synchronizing eadh other when the amplitude level of FM waveform (centre) is changed repeatedly from the maximum to the minimum.

(4) If the result of the above confirmation isn't favourable, adjust guide roller height according to the following instructions.

(5) Observe FM waveform at the supply side and the Takeup side.
If variation of amplitude level of the waveform delays to the waveform centre, the guide roller height is low. Adjust the height by loosening the set screw to the degree that the guide roller turns easily, and by turning the guide roller counter-clockwise.
If variation of amplitude level of the wave form preceeds the waveform centre, the guide roller height is high. Adjust the height by loosening the set screw to the degree that the guide roller turns easily and by turning the guide roller clockwise.
Note:
In adjusting guide roller height, pay attention to following points;
To turn the guide roller little by little.
To refrain from turning the guide roller more than ± 180° .

(6) After completing height adjustment of the guide roller, tighten the set screw.

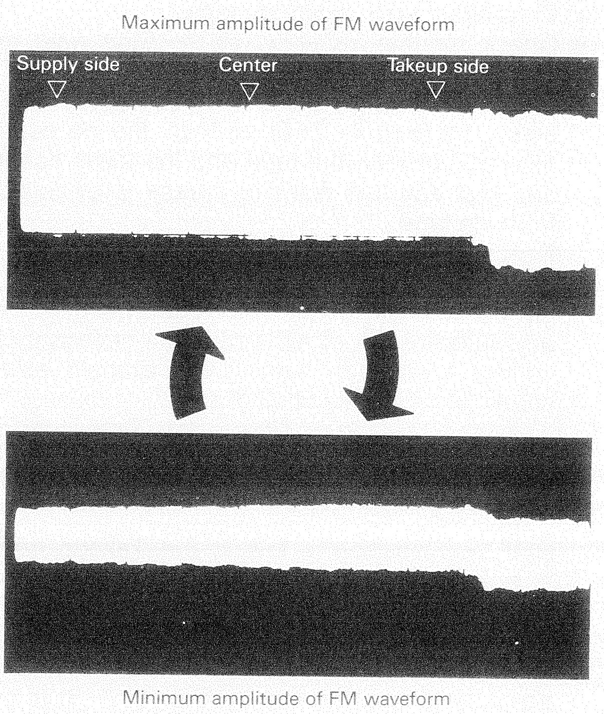


Fig.4 – 3 – 1

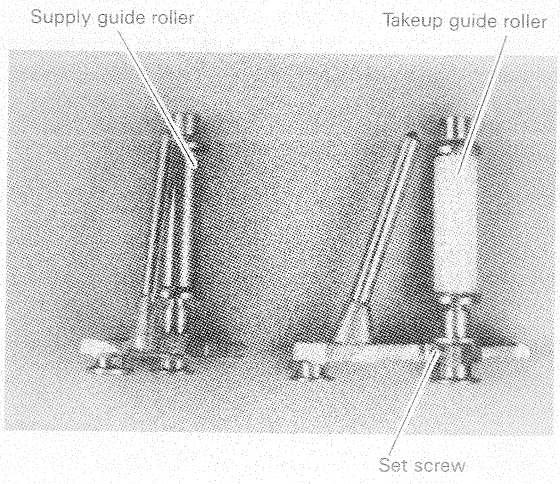


Fig.4 – 3 – 2

5-4 AC head adjustment

5-4-1 AC head height adjustment

(1) Playback an alignment tape (6KHz audio signal).
(2) Connect an oscilloscope to the audio out terminal.
(3) Adjust amplitude level of audio out signal to the maximum by turning the AC head height adjust nut ⓒ (Fig. 4-4-2).

5-4-2 AC head inclination adjustment

(1) Playback a self-recording tape.
(2) Check tape run condition near the Takeup guide pole.
(3) By turning the AC head inclination adjust screw ⓐ (Fig. 4-4-2), adjust head inclination so that the no gap is allowed between the tape and the lower flange, and any fold mark or crease is eliminated from the tape.

Note:
Azimuth of the AC head changes when the AC head inclination adjust screw ⓐ (fig. 4-4-2) is turned. Accordingly, adjust inclination while turnng the azimuth adjust screw ⓑ (Fig. 4-4-2) and correcting azimuth by visual check.

If position of the tape is low to the Takeup guide pole, adjust by turning the AC head inclination adjust screw ⓐ (Fig. 4−4−2) counter-clockwise.

5-4-3 AC head azimuth adjustment

(1) Connect an oscilloscope to the audio output terminal.
(2) Playback an alignment tape (6KHz audio signal). After completing the adjustment, apply thread lock to the adjust screw. Be careful so that no thread lock is deposited onto the tape run system.
(3) Turn the screw ⓑ (Fig. 4-4-2) for AC head azimuth adjustment so that the audio output level is maximum.

Note:
If the adjust screws ⓐ, ⓑ and ⓓ (Fig. 4-4-2) are adjusted in this case, thread lock shall be applied to the adjust screws after completing the adjustment. Be careful, at this time, so that no thread lock is deposited onto the tape run system.

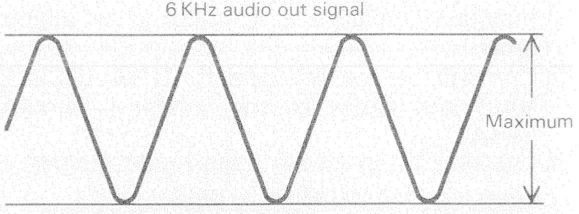


Fig.4 − 4 − 1

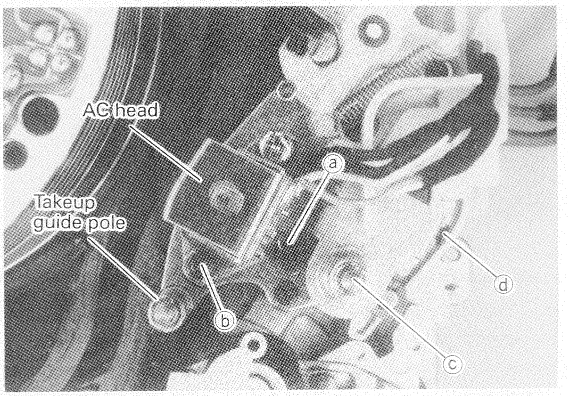


Fig.4 − 4 − 2

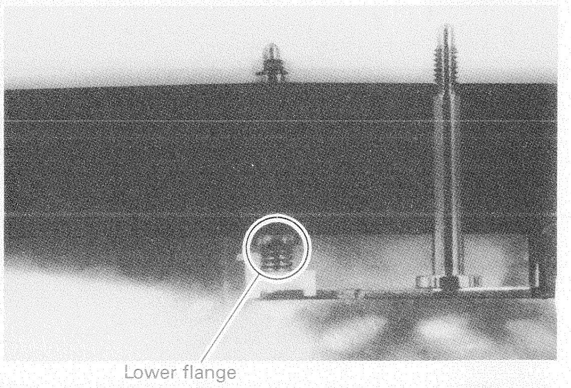


Fig.4 − 4 − 3

5-5 Phase adjustment

(1) Playback staircase (2H mode) of an alignment tape.
(2) Connect an oscilloscope to TP2A (PCB SIGNAL) and apply external trigger (– slope) by TP5A.
(3) Connect TP5B on the main board to GND, and keep tracking forcefully at preset mode.
(4) Turn the phase adjust screw ⓓ (Fig. 4-5-1) clockwise to tighten softly.
(5) Turn the phase adjust screw ⓓ (Fig. 4-5-1) counter-clockwise to adjust FM waveform amplitude level to the point next to the maximum.
(6) Release forced preset mode of tracking.
(7) Turn tracking to manual mode and adjust FM waveform to the maximum amplitude level.
(8) Make sure that the FM waveform amplitude level at tracking preset is equal to the maximum value of FM waveform amplitude level under manual mode.
(9) If the result of the above check isn't favourable, repeat adjustment from (3) to (8) above.
(10) After completing phase adjustment, shake the AC head assembly a little around the mounting shaft to make sure that audio output signal is maximum.
(11) If the result of the above checking isn't favourable, repeat adjustment of the AC head again.

Note:

When the adjust screws ⓐ, ⓑ, ⓓ (Fig. 4-5-1) are used for the above adjustment, apply thread lock to the adjust screws at the end of the adjustment. Be careful, at that time, so that no thread-lock is deposited onto the tape run system.

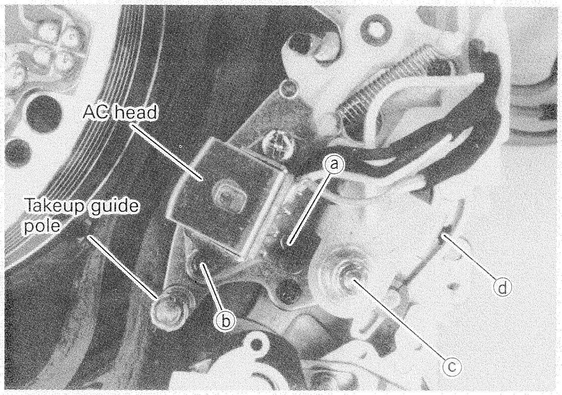


Fig.4 — 5 — 1

CHIP PARTS REPLACEMENT

Some resistors, shorting jumpers (0Ω resistor), ceramic capacitors, transistors and diodes are chip parts which are used for certain circuit elements. When replacing these parts, note the cautions as follows.

Cautions:

A. Use fine tipped, well insulated soldering pencil (iron) about 30 watts and the tweezers.
B. Melting the solder, remove the Chip Parts carefully not to tear off the copper foil of the printed circuit board.
C. Discard removed chips; do not reuse them.
D. Do not apply heat for more than 3 seconds to the new chip Parts.
E. Avoid using a rubbing stroke when soldering.
F. Take care not to scratch when soldering, or damage the Chip Parts.
G. Supplementary cementing is not required.

1. Removal of chip Parts (Resistors, capacitors, etc.)

A. Grasp the part with tweezers. Melting the solder at both side alternately, remove the one side of the part with a twisting motion.
B. Melt the solder at the other side and remove the part.

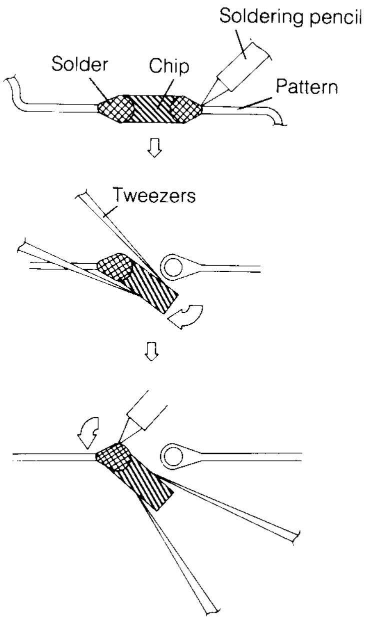

Soldering pencil
Solder
Chip
Pattern
Tweezers

Fig. 1

2. Removal of Chip Parts (Transistors)

A. Melting the solder of one lead, Lift the side of that lead upward.
B. Simultaneously melt the solder of the two remaining leads and lift the part to remove.

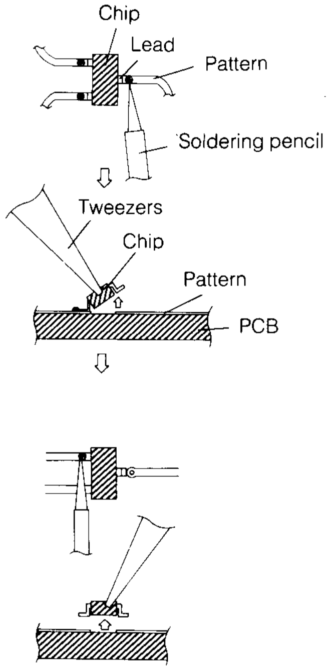

Chip
Lead
Pattern
Soldering pencil
Tweezers
Chip
Pattern
PCB

Fig. 2

3. Replacement

A. Presolder the contact points of the circuit pattern.
B. Press the part downward with tweezers and apply the soldering pencil as shown in the figure.

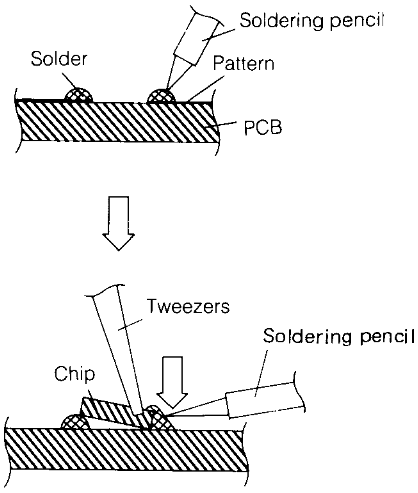
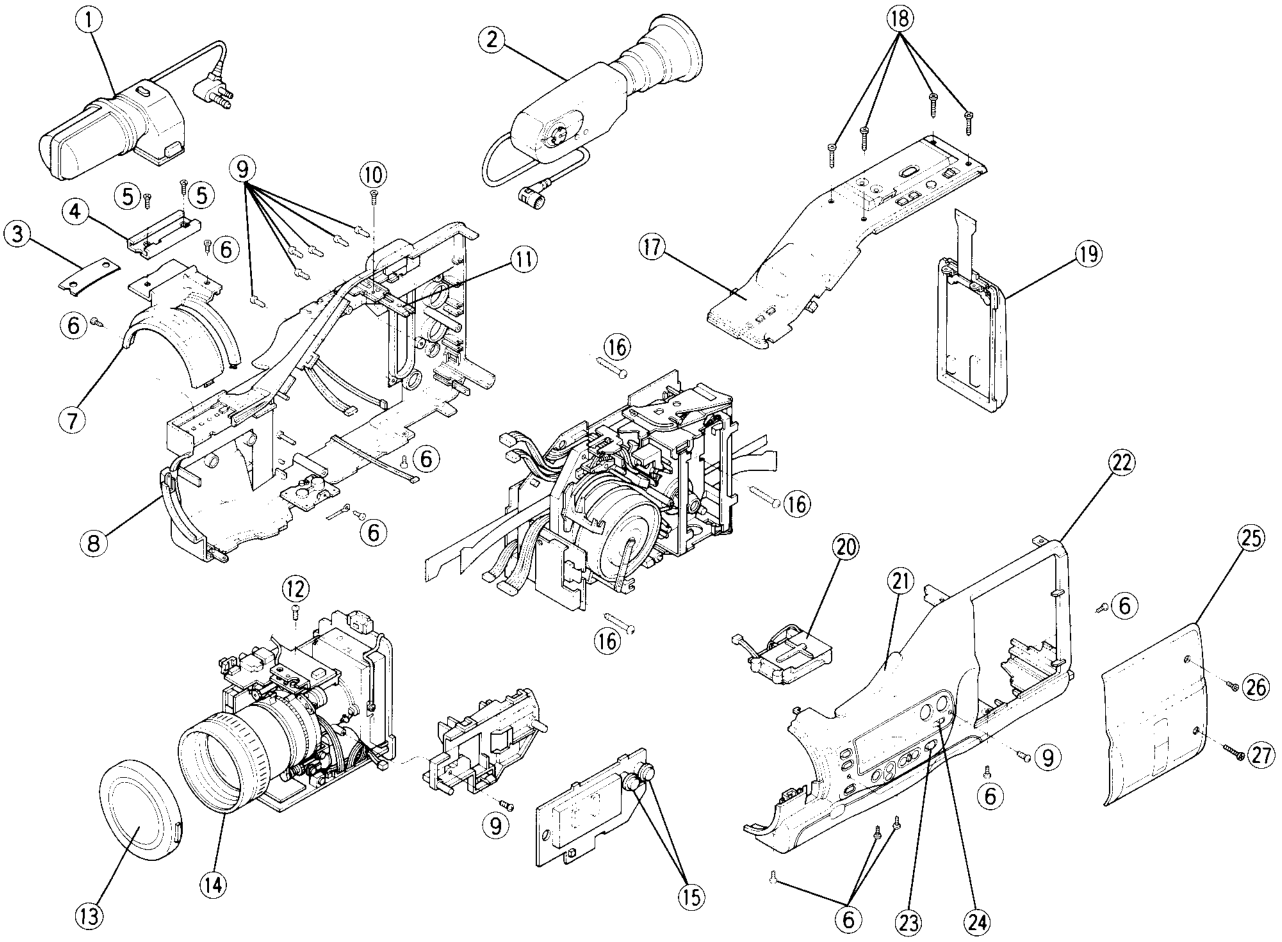

Soldering pencil
Solder
Pattern
PCB
Tweezers
Soldering pencil
Chip

Fig. 3

PARTS LIST

1. Cabinet Assembly



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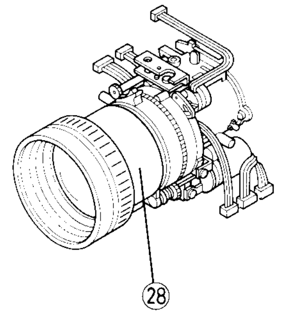

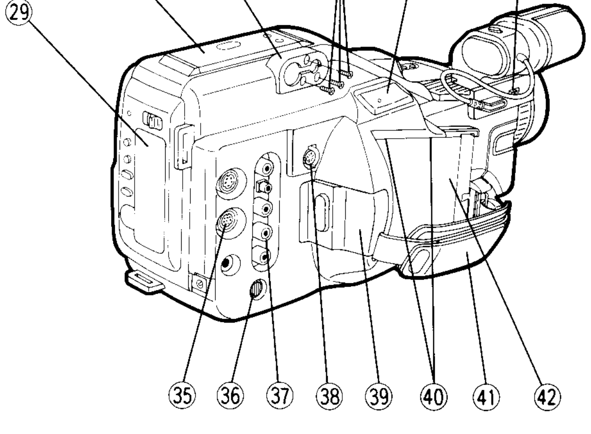

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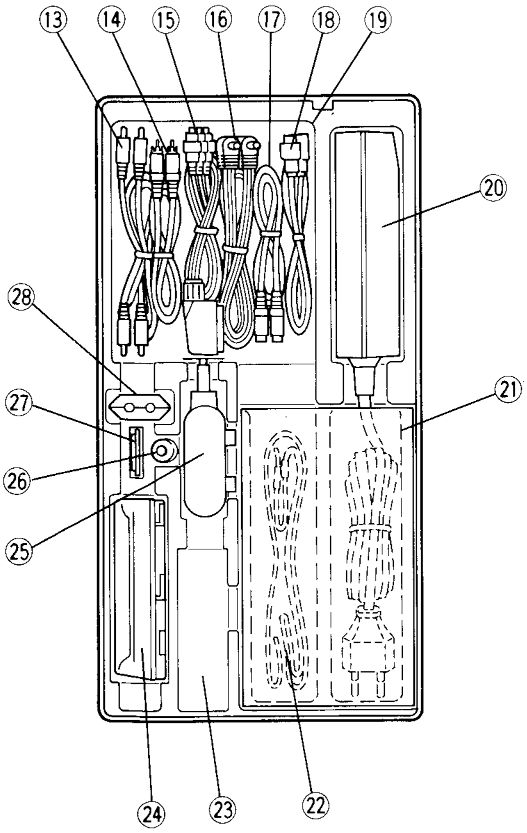
○ : NEW PARTS

	ITEM NO.	PARTS NO.	PARTS NAME	DESCRIPTION
CABINET ASSEMBLY				
○	1	485P015030	MICROPHONE UNIT	
○	2	939P370010	EVF UNIT	
○	3	572D443010	SPRING SHOE	
○	4	596D367010	MICROPHONE SHOE	
	5	669D321040	FLAT SCREW	M2X0.4-6 (10P)
	6	669D372010	SCREW	M2X4
○	7	702A309010	LENS COVER	
○	8	700B112030	LOWER CASE	
	9	669D322060	SCREW	2X6
○	10	669D321080	SCREW	M2X0.4-5 (10P)
○	11	596D365010	CASE HOLDER	
	12	669D322050	SCREW	2X6
○	13	702C899010	LENS CAP	
○	14	761C392010	LENS HOOD	
○	15	734D497010	LEVEL KNOB	
	16	669D319030	SCREW	2.6X16
○	17	939P349030	VTR SW UNIT	
○	18	669D372040	SCREW	M2X10
○	19	939P351030	CAMERA SW UNIT	
○	20	701B175020	BACK UP BATTERY UNIT	
○	21	765C017010	GRIP PAD	
○	22	701B200030	UPPER CASE UNIT	
○	23	734D495010	SLIDE-FA KNOB	
○	24	734D494010	REC KNOB	
○	25	702B725030	CASSETTE HOUSING	
○	26	669D317010	SCREW	M2X0.4-4
○	27	669D317050	SCREW	M2X0.4-12
○	28	490P065010	LENS UNIT	
○	29	702D227010	DOOR SW VTR	
○	30	702D228010	DOOR SW CMR	
○	31	761C353030	EVF SHOE	
	32	669D321020	SCREW	M2X0.4-10
	33	439P022020	ZOOM UNIT	
	34	734D465010	WINDOW SHUTTER KNOB	
	35	440B106010	CONTROL TERMINAL	
○	36	734D498010	ADJUST KNOB	
	37	440C195010	AV TERMINAL	
	38	761C357010	EVF TERMINAL	
○	39	702C902020	TRIGGER COVER	
	40	243D058010	PLATE LEAD	
○	41	772C013020	BELT GRIP	
○	42	760C555020	CAUTION LABEL-B	

2. Packing Parts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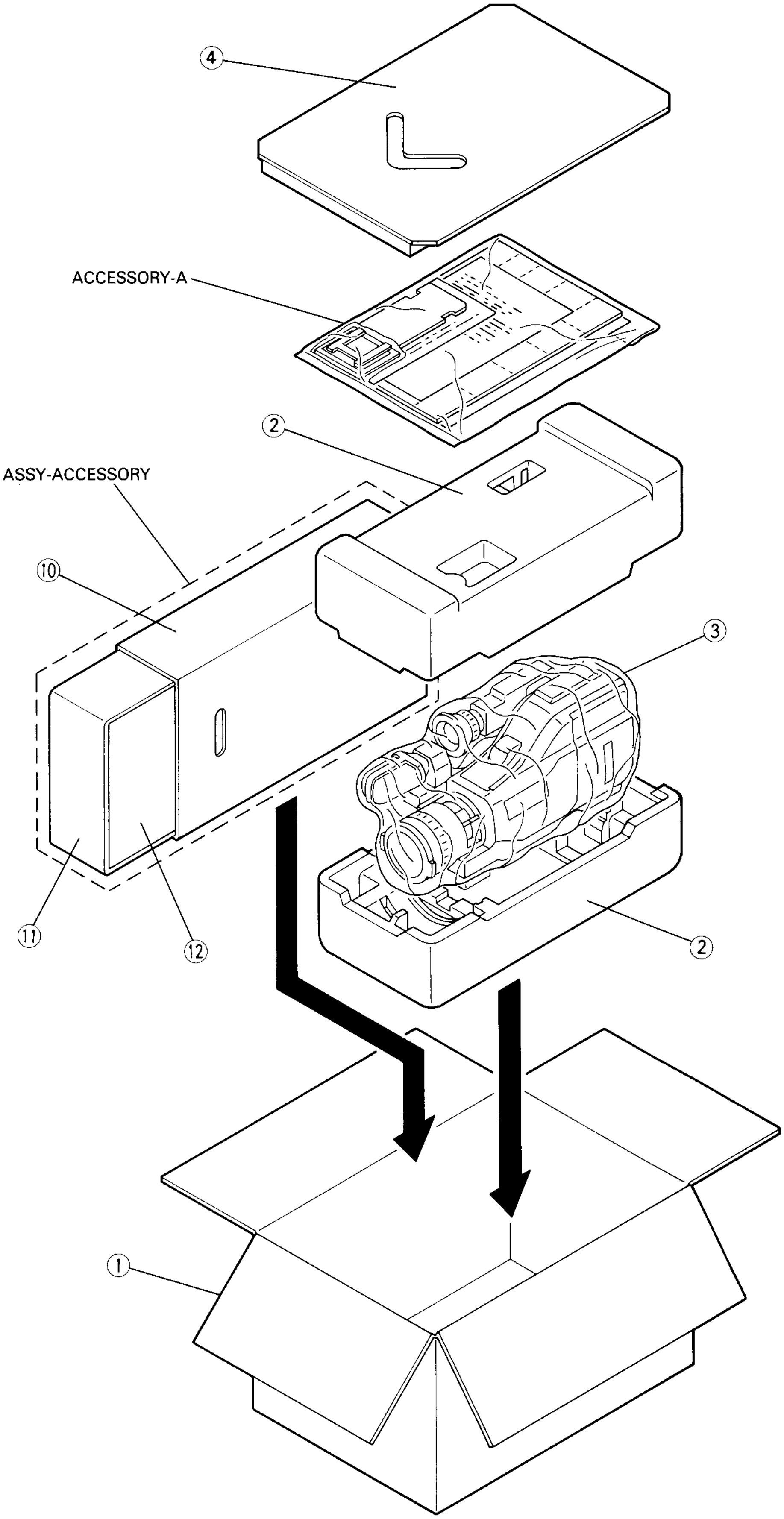
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ACCESSORY-A
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ASSY-ACCESSORY
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○ : NEW PARTS

	ITEM NO.	PARTS NO.	PARTS NAME	DESCRIPTION
PACKING PARTS				
	1	801C044010	PACKING CASE	[HS-C50E]
	1	801C044020	PACKING CASE	[HS-C50B]
○	1	801C044030	PACKING CASE	[HS-C50A]
○	2	803A223010	PACKING CUSHION	
	3	831D177050	PACKING BAG	
○	4	801C043010	SPACER TOP	
ACCESSORY – A				
○		872C012050	INSTRUCTION BOOK	
		872C012060	INSTRUCTION BOOK	[HS-C50E]
		872C012070	INSTRUCTION BOOK	[HS-C50E]
○		851B635010	SHEET CAUTION	
○		761C367020	TITLE HOLDER	
		831D181020	PACKING BAG	
ASSY – ACCESSORY				
	10	802C975040	SLEEV ACCESSORY-E	[HS-C50E]
	10	802C975050	SLEEV ACCESSORY-E	[HS-C50B]
○	10	802C975060	SLEEV ACCESSORY-E	[HS-C50A]
	11	803A193010	CUSHION ACCESSORY	
	12	802C974010	SHEET ACCESSORY	
	13	242C938010	CABLE(2P)	
	14	242C930040	PHONO CABLE	1.5m[HS-C50A]
	15	246C106010	AV CABLE(RCA-21P)	1.5m[HS-C50B, HS-C50E]
	16	242C977030	DC CABLE	
	17	242D373010	CABLE	
	18	242D231030	CABLE	1.5m[HS-C50A]
	19	831D252010	PACKING BAG	
	20	939P372010	AC POWER ADAPTER	[HS-C50E]
	20	939P372020	AC POWER ADAPTER	[HS-C50B]
○	20	939P372030	AC POWER ADAPTER	[HS-C50A]
	21	471P059030	CASSETTE ADAPTER	
○	22	772P013030	SHOULDER BELT	
	23	-------	C VIDEO CASSETTE TAPE	SE-C30
○	24	939P371010	BATTERY PACK	
	25	295P196010	RF CONVERTER	MDU-UD3605E[HS-C50B, HS-C50E]
	25	295P197010	RF CONVERTER	[HS-C50A]
	26	283P006020	BATTERY	
	27	283P035020	BACK UP BATTERY	Lithium battery(CR2025)
	28	451C072010	AC JACK	1.5m[HS-C50E]

WARNING

"Lithium battery. Replace battery only with the same type ordered from Mitsubishi, Parts number : 283P035020 (CR2025). Use of another battery may present a risk of fire or explosion. Do not recharge, disassemble or dispose battery to fire."

3. Electrical Parts

○ : NEW PARTS

INTEGRATED CIRCUITS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
○IC0SA	263P151010	IC	CXD1255Q
○IC0SB	263P153010	IC	NJU6322PE
IC0SC	263P110010	IC	MC74HC04F
○IC0SD	267P088020	IC	KIC-H, DRV(B112-2)
○IC0SE	263P148010	IC	CXD1250M
○IC0SF	272P515010	IC	ICX039AK
○IC0SG	267P087020	IC	KIC-CDS2(B111-2)
○IC0SH	263P149010	IC	SN74HC74DB
○IC1AA	272P482010	IC	AN2154FAP
IC1AB	272P204010	IC	LM2904M
IC1AC	272P209010	IC	AN2020S
○IC1AD	263P217010	IC	SC14S66F
○IC1AE	267P095010	IC	7P095
○IC1AF	267P094010	IC	7P094
IC1AG	263P223010	IC	SC14S01F
IC1AH	272P204010	IC	LM2904M
IC1AK	272P203010	IC	NJM3414M
IC201	266P023030	IC	AN3311S
○IC2AA	272P480010	IC	M52940FP
○IC2AB	263P150010	IC	CXD1158M
IC2AC	263P220010	IC	SC7SU04F
IC2AD	263P223010	IC	SC14S01F
IC2AE	263P223010	IC	SC14S01F
○IC2AF	267P090010	IC	KIC-DC-CONV(B114-1)
IC2D0	272P368010	IC	M51294FP
IC2F1	272P372010	IC	NJM2244M
○IC2P0	267P084020	IC	KIC-TLP(B109-2)
○IC2001	267P086020	IC	BX7822WF
○IC2101	272P521010	IC	CXL5003M
○IC2201	267P083020	IC	KIC-COS-EQ(B108-2)
IC301	272P375010	IC	BA7757BK
○IC3000	272P488010	IC	BA7703K1
○IC3001	267P085020	IC	KIC-A-OP-(B110-2)
○IC3200	272P378010	IC	BA7740FS
IC3300	272P374010	IC	BA328F
IC400	272P297010	IC	BA6431F
IC420	272P367010	IC	M51795FP
IC421	266P419020	IC	M5223FP
IC450	272P299010	IC	BA6455FS
IC4A0	266P419020	IC	M5223FP
IC4A2	272P235010	IC	TA7291S
IC4001	263P231010	IC	M60030-0111FP
IC4002	263P239010	IC	M5M5256VP-12LL
IC4003	272P366010	IC	LM311PS
IC4004	263P230010	IC	SC7S00F
○IC5A0	263P343010	IC	M37405M5-127FP
○IC5A1	263P677030	IC	MC14077BF
IC5A2	272P186010	IC	LM393M
○IC5AA	263P196010	IC	M37450M4-323FP
○IC5AG	272P479010	IC	M51280EP
○IC5BC	263P219020	IC	TLC272CPS
○IC5BD	263P217010	IC	SC14S66F
○IC5CA	263P197010	IC	SN74HC14DB
○IC5CB	263P154010	IC	SN74HC132DB
○IC5DA	272P485010	IC	LM2902DB
○IC5FM	272P358020	IC	TK10501M
○IC5YA	267P089020	IC	KIC-YAF(B113-2)
○IC5ZM	272P358020	IC	TK10501M
○IC601	272P522010	IC	M52056FP
IC602	272P231020	IC	HA118054FP
IC603	272P371010	IC	NJM2234M
○IC604	272P517010	IC	NJM2228M
○IC7AA	263P195010	IC	M37450M4-241FP
○IC7BA	263P146010	IC	CF77502FR
○IC7BD	263P321010	IC	SN74HC7002DB
○IC7CA	272P485010	IC	LM2902DB
○IC7CB	272P205020	IC	LM2903PS
○IC7DA	263P147010	IC	MB88341PFV-G-BND
○IC7EA	272P485010	IC	LM2902DB
○IC7EB	272P485010	IC	LM2902DB
IC7RA	272P357010	IC	RST529C
○IC7WA	263P218010	IC	M51099FP
IC7WB	272P204010	IC	LM2904M
○IC8A1	263P159010	IC	M34200M4-236FP
○IC8000	263P406010	IC	M50554-211FP
○IC8001	263P677030	IC	MC14077BF
○IC8002	263P653030	IC	MC14053BF
○IC8003	263P328010	IC	MC14070BF
○IC8700	263P342010	IC	M50944-117FP
IC8701	263P233010	IC	RTC-4503
IC8702	272P362010	IC	S-8054ALB-LM-T1
IC8703	272P359010	IC	S-81215AG-RK-T1/RH5R
IC900	272P298010	IC	BA6149LS
IC950	266P419020	IC	M5223FP
IC952	272P186010	IC	LM393M
IC980	272P360010	IC	S-81250HG-RD-T1

TRANSISTORS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
Q 0SA	260P867050	TRANSISTOR(C)	2SD1949
Q 0SB	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 0SC	260P845010	TRANSISTOR(C)	IMX1
Q 0SD	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 1AA	260P854030	TRANSISTOR(C)	2SC4098-Q
○Q 1AB	260P849010	TRANSISTOR(C)	IMZ1
Q 1AC	260P859020	TRANSISTOR(C)	2SA1576-R
Q 1AD	260P845010	TRANSISTOR(C)	IMX1
Q 1AE	260P845010	TRANSISTOR(C)	IMX1
Q 1AF	260P857020	TRANSISTOR(C)	DTC144EU
Q 1AG	260P845010	TRANSISTOR(C)	IMX1
Q 1AH	260P863010	TRANSISTOR(C)	IMT1
Q 1AJ	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 1AK	260P859020	TRANSISTOR(C)	2SA1576-R
Q 1AL	260P845010	TRANSISTOR(C)	IMX1
Q 1AM	260P845010	TRANSISTOR(C)	IMX1
Q 1AN	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 1AP	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 1AQ	260P863010	TRANSISTOR(C)	IMT1

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
Q 1AR	260P845010	TRANSISTOR(C)	IMX1
Q 1AS	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 1AV	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 1AX	260P867050	TRANSISTOR(C)	2SD1949
Q 1AY	260P857010	TRANSISTOR(C)	DTC144EU
Q 1AZ	260P845010	TRANSISTOR(C)	IMX1
Q 1BA	260P863010	TRANSISTOR(C)	IMT1
Q 1BB	260P845010	TRANSISTOR(C)	IMX1
Q 1BC	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 1BD	260P857010	TRANSISTOR(C)	DTC144EU
Q 1BE	260P857010	TRANSISTOR(C)	DTC144EU
Q 1BF	260P859020	TRANSISTOR(C)	2SA1576-R
Q 1BG	260P859020	TRANSISTOR(C)	2SA1576-R
Q 1BH	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 1BJ	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 1BK	260P857010	TRANSISTOR(C)	DTC144EU
Q 1BL	260P863010	TRANSISTOR(C)	IMT1
Q 1BM	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 1BN	260P859020	TRANSISTOR(C)	2SA1576-R
Q 201	260P854020	TRANSISTOR(C)	2SC4098-P
Q 202	260P857010	TRANSISTOR(C)	DTC144EU
Q 203	260P857010	TRANSISTOR(C)	DTC144EU
Q 204	260P861050	TRANSISTOR(C)	2SA1577A-Q
Q 205	260P854020	TRANSISTOR(C)	2SC4098-P
Q 206	260P859050	TRANSISTOR(C)	2SA1576-R
Q 211	260P851010	TRANSISTOR(C)	IMD2/XN4312
Q 212	260P851010	TRANSISTOR(C)	IMD2/XN4312
Q 213	260P861050	TRANSISTOR(C)	2SA1577A-Q
Q 214	260P857010	TRANSISTOR(C)	DTC144EU
Q 215	260P854020	TRANSISTOR(C)	2SC4098-P
○Q 216	260P861060	TRANSISTOR(C)	2SA1577-R
Q 217	260P853010	TRANSISTOR(C)	FMA2/XN1113
○Q 218	260P844030	TRANSISTOR(C)	XN1501
Q 219	260P852010	TRANSISTOR(C)	FMG2/XN1213
Q 220	260P854020	TRANSISTOR(C)	2SC4098-P
○Q 221	260P861060	TRANSISTOR(C)	2SA1577-R
Q 222	260P859080	TRANSISTOR(C)	2SB1218A
Q 223	260P859050	TRANSISTOR(C)	2SA1576-R
○Q 224	260P844030	TRANSISTOR(C)	XN1501
○Q 225	260P844030	TRANSISTOR(C)	XN1501
Q 226	260P857010	TRANSISTOR(C)	DTC144EU
Q 227	260P854020	TRANSISTOR(C)	2SC4098-P
Q 228	260P851010	TRANSISTOR(C)	IMD2/XN4312
Q 229	260P854020	TRANSISTOR(C)	2SC4098-P
Q 230	260P854020	TRANSISTOR(C)	2SC4098-P
Q 231	260P854020	TRANSISTOR(C)	2SC4098-P
Q 232	260P854020	TRANSISTOR(C)	2SC4098-P
Q 241	260P844010	TRANSISTOR(C)	FMW1
Q 242	260P854020	TRANSISTOR(C)	2SC4098-P
Q 2AA	260P859020	TRANSISTOR(C)	2SA1576-R
Q 2AB	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 2D0	260P845010	TRANSISTOR(C)	IMX1
Q 2D1	260P859020	TRANSISTOR(C)	2SA1576-R
Q 2D2	260P859020	TRANSISTOR(C)	2SA1576-R
Q 2EA	260P859020	TRANSISTOR(C)	2SA1576-R
Q 2EB	260P859020	TRANSISTOR(C)	2SA1576-R
Q 2EC	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 2ED	260P859020	TRANSISTOR(C)	2SA1576-R
Q 2EE	260P859020	TRANSISTOR(C)	2SA1576-R
Q 2F5	260P859020	TRANSISTOR(C)	2SA1576-R
○Q 2F6	260P849010	TRANSISTOR(C)	IMZ1
○Q 2F7	260P849010	TRANSISTOR(C)	IMZ1
○Q 2F8	260P849010	TRANSISTOR(C)	IMZ1
Q 2F9	260P853010	TRANSISTOR(C)	FMA2/XN1113
Q 2G0	260P845010	TRANSISTOR(C)	IMX1
Q 2L0	260P854020	TRANSISTOR(C)	2SC4098-P
○Q 2L1	260P849010	TRANSISTOR(C)	IMZ1
Q 2P0	260P859020	TRANSISTOR(C)	2SA1576-R
Q 2P1	260P843010	TRANSISTOR(C)	FMS1
Q 2X1	260P857010	TRANSISTOR(C)	DTC144EU
Q 2001	260P856010	TRANSISTOR(C)	DTA144EU
Q 2002	260P859020	TRANSISTOR(C)	2SA1576-R
Q 2003	260P854020	TRANSISTOR(C)	2SC4098-P
Q 2004	260P854020	TRANSISTOR(C)	2SC4098-P
Q 2005	260P854020	TRANSISTOR(C)	2SC4098-P
Q 2006	260P856010	TRANSISTOR(C)	DTA144EU
Q 2007	260P857010	TRANSISTOR(C)	DTC144EU
Q 2020	260P856010	TRANSISTOR(C)	DTA144EU
Q 2021	260P852010	TRANSISTOR(C)	FMG2/XN1213
Q 2022	260P852010	TRANSISTOR(C)	FMG2/XN1213
Q 2023	260P852010	TRANSISTOR(C)	FMG2/XN1213
Q 2024	260P852010	TRANSISTOR(C)	FMG2/XN1213
Q 2027	260P857010	TRANSISTOR(C)	DTC144EU
Q 2028	260P859020	TRANSISTOR(C)	2SA1576-R
Q 2029	260P854020	TRANSISTOR(C)	2SC4098-P
○Q 2030	260P849010	TRANSISTOR(C)	IMZ1
Q 2031	260P859020	TRANSISTOR(C)	2SA1576-R
Q 2101	260P859020	TRANSISTOR(C)	2SA1576-R
Q 2102	260P854020	TRANSISTOR(C)	2SC4098-P
Q 2201	260P857010	TRANSISTOR(C)	DTC144EU
Q 2202	260P852010	TRANSISTOR(C)	FMG2/XN1213
Q 2210	260P854020	TRANSISTOR(C)	2SC4098-P
Q 2212	260P854020	TRANSISTOR(C)	2SC4098-P
Q 2213	260P859020	TRANSISTOR(C)	2SA1576-R
Q 2214	260P854020	TRANSISTOR(C)	2SC4098-P
Q 2230	260P854020	TRANSISTOR(C)	2SC4098-P
Q 2231	260P857010	TRANSISTOR(C)	DTC144EU
Q 2232	260P854020	TRANSISTOR(C)	2SC4098-P
Q 2233	260P859020	TRANSISTOR(C)	2SA1576-R
Q 2234	260P854020	TRANSISTOR(C)	2SC4098-P
Q 2301	260P861050	TRANSISTOR(C)	2SA1577A-Q
Q 2302	260P861050	TRANSISTOR(C)	2SA1577A-Q
Q 2303	260P853010	TRANSISTOR(C)	FMA2/XN1113
Q 2304	260P853010	TRANSISTOR(C)	FMA2/XN1113
Q 2305	260P856010	TRANSISTOR(C)	DTA144EU
Q 2306	260P856010	TRANSISTOR(C)	DTA144EU
Q 301	260P856010	TRANSISTOR(C)	DTA144EU
○Q 302	260P844030	TRANSISTOR(C)	XN1501

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
Q 303	260P845010	TRANSISTOR(C)	IMX1
Q 304	260P852010	TRANSISTOR(C)	FMG2/XN1213
Q 306	260P851010	TRANSISTOR(C)	IMD2/XN4312
Q 307	260P867060	TRANSISTOR(C)	2SD1949-R
Q 308	260P857010	TRANSISTOR(C)	DTC144EU
Q 309	260P852010	TRANSISTOR(C)	FMG2/XN1213
Q 310	260P861020	TRANSISTOR(C)	2SA1577A-Q
Q 311	260P861020	TRANSISTOR(C)	2SA1577A-Q
Q 3000	260P855030	TRANSISTOR(C)	2SC4081-S
Q 3001	260P856010	TRANSISTOR(C)	DTA144EU
Q 3002	260P855030	TRANSISTOR(C)	2SC4081-S
Q 3003	260P855030	TRANSISTOR(C)	2SC4081-S
Q 3004	260P853010	TRANSISTOR(C)	FMA2/XN1113
Q 3005	260P844010	TRANSISTOR(C)	FMW1
Q 3006	260P851010	TRANSISTOR(C)	IMD2/XN4312
Q 3007	260P856010	TRANSISTOR(C)	DTA144EU
Q 3200	260P852010	TRANSISTOR(C)	FMG2/XN1213
Q 3201	260P852010	TRANSISTOR(C)	FMG2/XN1213
Q 3202	260P859020	TRANSISTOR(C)	2SA1576-R
Q 400	260P855010	TRANSISTOR(C)	2SC4081-Q
Q 420	260P855030	TRANSISTOR(C)	2SC4081-S
Q 450	260P855010	TRANSISTOR(C)	2SC4081-Q
Q 480	260P867050	TRANSISTOR(C)	2SD1949
Q 4B0	260P853010	TRANSISTOR(C)	FMA2/XN1113
Q 4B1	260P856010	TRANSISTOR(C)	DTA144EU
Q 4B2	260P856010	TRANSISTOR(C)	DTA144EU
○Q 4C0	260P849010	TRANSISTOR(C)	IMZ1
Q 4C1	260P856010	TRANSISTOR(C)	DTA144EU
Q 4F0	260P847010	TRANSISTOR(C)	2SB1114-ZL
Q 4F1	260P808010	TRANSISTOR(C)	DTC114EK
Q 4S0	260P856010	TRANSISTOR(C)	DTA144EU
○Q 4001	260P849010	TRANSISTOR(C)	IMZ1
Q 571	268P026010	PHOTO INTERRUPTER	GP2L04B
Q 572	268P026010	PHOTO INTERRUPTER	GP2L04B
Q 5A0	260P855070	TRANSISTOR(C)	2SD1819A-Q
Q 5A2	260P845010	TRANSISTOR(C)	IMX1
○Q 5A3	260P849010	TRANSISTOR(C)	IMZ1
Q 5A4	260P855070	TRANSISTOR(C)	2SD1819A-Q
Q 5A5	260P859070	TRANSISTOR(C)	2SB1218A-Q
Q 5B0	260P858010	TRANSISTOR(C)	DTA114EU
Q 5B1	260P856010	TRANSISTOR(C)	DTA144EU
Q 5B2	260P857010	TRANSISTOR(C)	DTC144EU
Q 5BA	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 5BB	260P863010	TRANSISTOR(C)	IMT1
Q 5BC	260P859020	TRANSISTOR(C)	2SA1576-R
Q 5BD	260P857010	TRANSISTOR(C)	DTC144EU
Q 5FA	260P854030	TRANSISTOR(C)	2SC4098-Q
○Q 5LA	260P855050	TRANSISTOR(C)	2SC4081
Q 5ZA	260P865010	TRANSISTOR(C)	2SD999-CK
Q 5ZB	260P859020	TRANSISTOR(C)	2SA1576-R
Q 603	260P857010	TRANSISTOR(C)	DTC144EU
Q 604	260P859020	TRANSISTOR(C)	2SA1576-R
Q 607	260P845010	TRANSISTOR(C)	IMX1
Q 608	260P857010	TRANSISTOR(C)	DTC144EU

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
Q 609	260P857010	TRANSISTOR(C)	DTC144EU
Q 610	260P857010	TRANSISTOR(C)	DTC144EU
Q 612	260P852010	TRANSISTOR(C)	FMG2/XN1213
Q 613	260P854020	TRANSISTOR(C)	2SC4098-P
Q 7CA	260P867050	TRANSISTOR(C)	2SD1949
Q 7CC	260P854020	TRANSISTOR(C)	2SC4098-P
Q 7HA	260P854020	TRANSISTOR(C)	2SC4098-P
Q 7RA	260P857020	TRANSISTOR(C)	DTC144EU
Q 8A1	260P856010	TRANSISTOR(C)	DTA144EU
Q 8A2	260P857010	TRANSISTOR(C)	DTC144EU
Q 8002	260P854020	TRANSISTOR(C)	2SC4098-P
Q 8003	260P845010	TRANSISTOR(C)	IMX1
Q 8701	260P857010	TRANSISTOR(C)	DTC144EU
Q 8704	260P854020	TRANSISTOR(C)	2SC4098-P
Q 8705	260P864010	TRANSISTOR(C)	2SK209GR
○Q 8706	260P861060	TRANSISTOR(C)	2SA1577-R
Q 8707	260P857010	TRANSISTOR(C)	DTC144EU
Q 8708	260P861050	TRANSISTOR(C)	2SA1577A-Q
Q 8709	260P854020	TRANSISTOR(C)	2SC4098-P
Q 8720	260P844010	TRANSISTOR(C)	FMW1
Q 8721	260P857010	TRANSISTOR(C)	DTC144EU
Q 8724	260P857010	TRANSISTOR(C)	DTC144EU
Q 8725	260P857010	TRANSISTOR(C)	DTC144EU
Q 8727	260P859080	TRANSISTOR(C)	2SB1218A
Q 900	260P851010	TRANSISTOR(C)	IMD2/XN4312
○Q 920	260P670010	TRANSISTOR	2SA1615-K
Q 921	260P855010	TRANSISTOR(C)	2SC4081-Q
Q 922	260P859020	TRANSISTOR(C)	2SA1576-R
Q 930	260P847010	TRANSISTOR(C)	2SB1114-ZL
Q 931	260P845010	TRANSISTOR(C)	IMX1
Q 932	260P865010	TRANSISTOR(C)	2SD999-CK
Q 940	260P847010	TRANSISTOR(C)	2SB1114-ZL
Q 941	260P847010	TRANSISTOR(C)	2SB1114-ZL
○Q 960	260P868010	TRANSISTOR(C)	2SC2873-Y
Q 970	260P858010	TRANSISTOR(C)	DTA114EU
Q 971	260P857010	TRANSISTOR(C)	DTC144EU
Q 972	260P861050	TRANSISTOR(C)	2SA1577A-Q
Q 980	260P482010	TRANSISTOR(C)	2SB798-DK

DIODES

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
○D 0SA	264P837010	DIODE(C)	MA141K
○D 0SB	264P837010	DIODE(C)	MA141K
D 0SC	264P814010	DIODE(C)	DAP202U
D 0SD	264P830020	DIODE(C)	DA204U
D 0SE	264P814010	DIODE(C)	DAP202U
D 1AA	264P814010	DIODE(C)	DAP202U
D 201	264P828010	DIODE(C)	DAN202U
D 202	264P828010	DIODE(C)	DAN202U
D 203	264P828010	DIODE(C)	DAN202U
D 204	264P828010	DIODE(C)	DAN202U
D 205	264P828010	DIODE(C)	DAN202U
D 2D0	264P828010	DIODE(C)	DAN202U
○D 2EA	264P834010	DIODE(C)	MA341
D 2001	264P828010	DIODE(C)	DAN202U
D 2002	264P828010	DIODE(C)	DAN202U

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
D 2003	264P828010	DIODE(C)	DAN202U
D 2004	264P814010	DIODE(C)	DAP202U
D 2201	264P828010	DIODE(C)	DAN202U
D 301	264P814010	DIODE(C)	DAP202U
D 302	264P814010	DIODE(C)	DAP202U
D 303	264P814010	DIODE(C)	DAP202U
D 3000	264P814010	DIODE(C)	DAP202U
D 3000	264P828010	DIODE(C)	DAN202U
D 3001	264P828010	DIODE(C)	DAN202U
D 450	264P828010	DIODE(C)	DAN202U
D 451	264P814010	DIODE(C)	DAP202U
D 4C1	264P830020	DIODE(C)	DA204U
D 4D0	264P828010	DIODE(C)	DAN202U
○D 4F0	264P816040	DIODE(C)	RD6. 8MB1
D 4S0	264P816050	DIODE(C)	RD7. 5MB2
D 4S1	264P816050	DIODE(C)	RD7. 5MB2
D 4S2	264P816050	DIODE(C)	RD7. 5MB2
D 4S3	264P816050	DIODE(C)	RD7. 5MB2
D 4001	264P814010	DIODE(C)	DAP202U
D 571	264P526010	LIGHT EMITTING DIODE	LN57
D 5A0	264P814010	DIODE(C)	DAP202U
D 5B0	264P816050	DIODE(C)	RD7. 5MB2
D 5B1	264P816050	DIODE(C)	RD7. 5MB2
D 5B3	264P814010	DIODE(C)	DAP202U
D 5B4	264P828010	DIODE(C)	DAN202U
D 5B6	264P816050	DIODE(C)	RD7. 5MB2
D 5B7	264P816050	DIODE(C)	RD7. 5MB2
D 5B8	264P816050	DIODE(C)	RD7. 5MB2
D 5MA	264P830020	DIODE(C)	DA204U
D 5MB	264P830020	DIODE(C)	DA204U
D 601	264P833010	DIODE(C)	ND411G-2
D 8A1	264P814010	DIODE(C)	DAP202U
D 8A2	264P814010	DIODE(C)	DAP202U
D 8A3	264P814010	DIODE(C)	DAP202U
D 8A4	264P313050	DIODE	SLR-34URC3
D 8B1	264P816050	DIODE(C)	RD7. 5MB2
D 8000	264P814010	DIODE(C)	DAP202U
D 8001	264P814010	DIODE(C)	DAP202U
D 8003	264P828010	DIODE(C)	DAN202U
D 8004	264P814010	DIODE(C)	DAP202U
D 8700	264P828010	DIODE(C)	DAN202U
D 8701	264P828010	DIODE(C)	DAN202U
D 8702	264P814010	DIODE(C)	DAP202U
D 8703	264P828010	DIODE(C)	DAN202U
D 8705	264P828010	DIODE(C)	DAN202U
D 8706	264P816050	DIODE(C)	RD7. 5MB2
D 8708	264P816050	DIODE(C)	RD7. 5MB2
D 8709	264P816050	DIODE(C)	RD7. 5MB2
D 900	264P551010	DIODE	RK13
D 920	264P832010	DIODE(C)	SFPB64V
D 940	264P831010	DIODE(C)	SFPB54V
D 941	264P831010	DIODE(C)	SFPB54V
D 960	264P814010	DIODE(C)	DAP202U
D 961	264P814030	DIODE(C)	MA142WA
D 962	264P831010	DIODE(C)	SFPB54V
D 963	264P814030	DIODE(C)	MA142WA
D 970	264P828010	DIODE(C)	DAN202U
D 971	264P828010	DIODE(C)	DAN202U
D 980	264P833010	DIODE(C)	ND411G-2
D 981	264P814010	DIODE(C)	DAP202U
D 982	264P814010	DIODE(C)	DAP202U

FILTERS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
BPF2P0	409P553010	BAND PASS FILTER(C)	
○BPF3A0	409P620010	LOW PASS FILTER	
○BPF3A1	409P621010	LOW PASS FILTER	
BPF601	409P552010	BAND PASS FILTER(C)	
○BPF602	409P625010	BAND PASS FILTER	
CF601	296P103010	DERAMIC FILTER	
CF8A1	299P126030	CERAMIC RESONATOR(C)	CSAC2. 00
CF8700	299P126010	CERAMIC RESONATOR(C)	CSAC4. 19
CF900	296P099010	CERAMIC RESONATOR	
○LF1AA	409P615010	LOW PASS FILTER	
○LF1AB	409P590010	LOW PASS FILTER	
○LF1AC	409P589010	LOW PASS FILTER	
○LF1AD	409P613010	LOW PASS FILTER	
○LF1AE	409P592010	LOW PASS FILTER	
○LF2AA	409P593010	LOW PASS FILTER	
○LF2AB	409P594010	LOW PASS FILTER	
LF2EA	409P549010	BAND PASS FILTER(C)	
LPF2B1	409P517010	LOW PASS FILTER(C)	
○LPF2B2	409P607010	LOW PASS FILTER	
LPF601	409P520010	LOW PASS FILTER(C)	
○LPF602	409P626010	LOW PASS FILTER	

DELAY LINES

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
○DL601	337P165010	DELAY LINE	

COILS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
L 0SA	325C241070	COIL(C)	22 μ H-K
L 0SB	325C241070	COIL(C)	22 μ H-K
L 0SC	325C241070	COIL(C)	22 μ H-K
L 0SD	325C140030	COIL(C)	1. 5 μ H-M
L 0SE	325C140030	COIL(C)	1. 5 μ H-M
L 0SF	325C140030	COIL(C)	1. 5 μ H-M
L 0SG	325C140030	COIL(C)	1. 5 μ H-M
○L 0SH	325C140010	COIL(C)	1 μ H-M
L 1AA	325C241030	COIL(C)	10 μ H-K
L 1AC	325C241070	COIL(C)	22 μ H-K
L 1AD	325C241070	COIL(C)	22 μ H-K
L 1AE	325C241070	COIL(C)	22 μ H-K
L 1AF	325C241070	COIL(C)	22 μ H-K
L 201	325C243000	COIL(C)	270 μ H-K
L 202	325C242050	COIL(C)	100 μ H-K
L 203	325C243000	COIL(C)	270 μ H-K
L 205	325C141030	COIL(C)	10 μ H-K
L 206	325C242080	COIL(C)	180 μ H-K

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
L 207	325C242050	COIL(C)	100μH-K
○L 209	325C231020	COIL(C)	8.2μH-J
○L 210	325C180010	COIL(C)	1μH-K
L 211	325C141040	COIL(C)	12μH-K
L 212	325C140070	COIL(C)	3.3μH-K
L 214	325C242050	COIL(C)	100μH-K
L 215	325C242050	COIL(C)	100μH-K
L 217	325C242050	COIL(C)	100μH-K
○L 218	325C243010	COIL(C)	330μH-K
L 2AA	325C241070	COIL(C)	22μH-K
L 2AB	325C242050	COIL(C)	100μH-K
L 2AC	325C241070	COIL(C)	22μH-K
○L 2AD	351P063030	CHOKE COIL	
L 2D0	325C242050	COIL(C)	100μH-K
L 2D1	325C242050	COIL(C)	100μH-K
L 2F0	325C242050	COIL(C)	100μH-K
○L 2F1	325C142000	COIL(C)	39μH-K
L 2P0	325C242050	COIL(C)	100μH-K
L 2001	325C242050	COIL(C)	100μH-K
L 2002	325C242050	COIL(C)	100μH-K
L 2003	325C242050	COIL(C)	100μH-K
L 2004	325C242010	COIL(C)	47μH-K
L 2101	325C242050	COIL(C)	100μH-K
L 2102	325C242050	COIL(C)	100μH-K
○L 2103	325C141060	COIL(C)	18μH-K
○L 2104	325C142000	COIL(C)	39μH-K
L 2105	325C142010	COIL(C)	47μH-K
L 2201	325C242050	COIL(C)	100μH-K
L 2211	325C141090	COIL(C)	33μH-K
L 2212	325C243000	COIL(C)	270μH-K
○L 2213	325C142000	COIL(C)	39μH-K
L 2230	325C141090	COIL(C)	33μH-K
L 2231	325C141090	COIL(C)	33μH-K
○L 2232	325C242070	COIL(C)	150μH-K
○L 2233	325C141020	COIL(C)	8.2μH-M
L 2234	325C142010	COIL(C)	47μH-K
○L 301	409P385020	TRAP COIL(C)	
L 302	409P384020	BIAS TRAP COIL	
○L 303	409P622010	AUDIO BIAS OSC	
L 304	325C242060	COIL(C)	120μH-K
L 3000	325C242050	COIL(C)	100μH-K
L 3001	325C242050	COIL(C)	100μH-K
L 3200	325C242050	COIL(C)	100μH-K
L 3201	325C242050	COIL(C)	100μH-K
L 3300	325C242050	COIL(C)	100μH-K
L 400	325C142010	COIL(C)	47μH-K
L 420	325C142010	COIL(C)	47μH-K
L 450	325C142010	COIL(C)	47μH-K
L 4001	325C230070	COIL(C)	3.3μH-J
L 4002	325C142050	COIL(C)	100μH-K
L 4003	325C142050	COIL(C)	100μH-K
L 4004	325C142050	COIL(C)	100μH-K
L 4101	409P512080	EMI FILTER	
L 4102	409P512080	EMI FILTER	

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
L 4103	409P512080	EMI FILTER	
L 5KA	325C242050	COIL(C)	100μH-K
L 5KB	325C242050	COIL(C)	100μH-K
L 5KC	325C242050	COIL(C)	100μH-K
L 601	325C141090	COIL(C)	33μH-K
L 602	325C242050	COIL(C)	100μH-K
L 603	325C242050	COIL(C)	100μH-K
L 604	325C142010	COIL(C)	47μH-K
L 605	325C242050	COIL(C)	100μH-K
L 606	325C141050	COIL(C)	15μH-K
L 607	325C242050	COIL(C)	100μH-K
L 608	325C141070	COIL(C)	22μH-K
L 609	325C242050	COIL(C)	100μH-K
L 7PA	325C242050	COIL(C)	100μH-K
L 7PD	325C242050	COIL(C)	100μH-K
L 7WA	325C242010	COIL(C)	47μH-K
○L 8000	325C181050	COIL(C)	15μH-K
L 8001	325C242050	COIL(C)	100μH-K
L 900	351P063010	CHOKE COIL	
L 901	351P063010	CHOKE COIL	
L 920	351P062010	CHOKE COIL	
○L 921	351P063040	CHOKE COIL	
L 922	325C241070	COIL(C)	22μH-K
L 940	351P056010	CHOKE COIL	
L 941	351P056020	CHOKE COIL	
L 960	325C132050	COIL(C)	100μH-K
L 961	351P063020	CHOKE COIL	
L 962	325C132050	COIL(C)	100μH-K
T 480	409P527010	FE OSCLLATOR COIL	6304-087
VL601	409P390040	VARIABLE COIL	S-5LD3

TRANSFORMERS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
○T 960	409P598010	TRANSFORMER	

VARIABLE RESISTORS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
VR0SA	127C220090	VR-SEMIFIXED(C)	1/10W B20kΩ-N
VR0SB	127C221010	VR-SEMIFIXED(C)	1/10W B50kΩ-N
VR1AA	127C220080	VR-SEMIFIXED(C)	1/10W B10kΩ-N
VR1AB	127C220080	VR-SEMIFIXED(C)	1/10W B10kΩ-N
VR1AC	127C220080	VR-SEMIFIXED(C)	1/10W B10kΩ-N
VR1AD	127C220040	VR-SEMIFIXED(C)	1/10W B1kΩ-N
VR1AE	127C220090	VR-SEMIFIXED(C)	1/10W B20kΩ-N
VR1AF	127C220090	VR-SEMIFIXED(C)	1/10W B20kΩ-N
VR1AG	127C220090	VR-SEMIFIXED(C)	1/10W B20kΩ-N
VR1AH	127C220080	VR-SEMIFIXED(C)	1/10W B10kΩ-N
VR1AJ	127C220080	VR-SEMIFIXED(C)	1/10W B10kΩ-N
VR1AM	127C221020	VR-SEMIFIXED(C)	1/10W B100kΩ-N
VR1AN	127C221020	VR-SEMIFIXED(C)	1/10W B100kΩ-N
VR1AP	127C220090	VR-SEMIFIXED(C)	1/10W B20kΩ-N
VR1AQ	127C220090	VR-SEMIFIXED(C)	1/10W B20kΩ-N
VR1AS	127C220090	VR-SEMIFIXED(C)	1/10W B20kΩ-N
VR1AT	127C220080	VR-SEMIFIXED(C)	1/10W B10kΩ-N
VR1AU	127C220090	VR-SEMIFIXED(C)	1/10W B20kΩ-N
VR202	127C220040	VR-SEMIFIXED(C)	1/10W B1kΩ-N

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
VR203	127C220050	VR-SEMIFIXED(C)	1/10W B2kΩ-N
○VR2AA	127C240040	VR-SEMIFIXED	0.15W B1kΩ ±25%
○VR2AB	127C240070	VR-SEMIFIXED	0.15W B5kΩ ±25%
○VR2EC	127C240080	VR-SEMIFIXED	0.15W B10kΩ ±25%
VR2001	127C220060	VR-SEMIFIXED(C)	1/10W B3kΩ-N
VR2101	127C220070	VR-SEMIFIXED(C)	1/10W B5kΩ-N
VR301	127C220080	VR-SEMIFIXED(C)	1/10W B10kΩ-N
VR302	127C221010	VR-SEMIFIXED(C)	1/10W B50kΩ-N
VR3000	127C221010	VR-SEMIFIXED(C)	1/10W B50kΩ-N
VR3001	127C220090	VR-SEMIFIXED(C)	1/10W B20kΩ-N
VR3002	127C220090	VR-SEMIFIXED(C)	1/10W B20kΩ-N
VR3003	127C221010	VR-SEMIFIXED(C)	1/10W B50kΩ-N
VR3004	127C220040	VR-SEMIFIXED(C)	1/10W B1kΩ-N
VR3200	127C220070	VR-SEMIFIXED(C)	1/10W B5kΩ-N
VR4S0	129D132050	VR-PCB	1/20W B100kΩ-15F
VR5A1	127C251020	VR-SEMIFIXED(C)	1/5W B100K
VR601	127C221010	VR-SEMIFIXED(C)	1/10W B50kΩ-N
VR602	127C221020	VR-SEMIFIXED(C)	1/10W B100kΩ-N
VR603	127C220040	VR-SEMIFIXED(C)	1/10W B1kΩ-N
○VR7WA	127C331010	VR-SEMIFIXED	1/5W B50kΩ
○VR7WB	127C230090	VR-SEMIFIXED	1/5W B20kΩ
○VR7WC	127C230090	VR-SEMIFIXED	1/5W B20kΩ
○VR7WD	127C331010	VR-SEMIFIXED	1/5W B50kΩ
○VR7WE	127C330090	VR-SEMIFIXED	1/5W B20kΩ
○VR8A2	120C278030	VR-PCB	
○VR8A3	120C278030	VR-PCB	
VR8000	127C251030	VR-SEMIFIXED(C)	1/5W B200kΩ
VR8002	127C251030	VR-SEMIFIXED(C)	1/5W B200kΩ
VR920	127C220070	VR-SEMIFIXED(C)	1/10W B5kΩ-N
VR960	127C220080	VR-SEMIFIXED(C)	1/10W B10kΩ-N

RESISTORS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 0SA	103P506010	RESISTOR(C)	1/20W 1MΩ-J
R 0SB	103P501070	RESISTOR(C)	1/20W 220Ω-J
R 0SC	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 0SE	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 0SF	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 0SG	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 0SH	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 0SJ	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 0SK	103P509050	RESISTOR(C)	0Ω
R 0SM	103P502020	RESISTOR(C)	1/20W 560Ω-J
R 0SN	103P502020	RESISTOR(C)	1/20W 560Ω-J
R 0SP	103P502010	RESISTOR(C)	1/20W 470Ω-J
R 0SQ	103P503000	RESISTOR(C)	1/20W 2.7kΩ-J
R 0SR	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 0ST	103P502090	RESISTOR(C)	1/20W 2.2kΩ-J
R 0SU	103P502090	RESISTOR(C)	1/20W 2.2kΩ-J
R 0SW	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 0SY	103P503050	RESISTOR(C)	1/20W 6.8kΩ-J
R 0SZ	103P503080	RESISTOR(C)	1/20W 12kΩ-J
R 0TA	103P500010	RESISTOR(C)	1/20W 10Ω-J
R 0TB	103P500010	RESISTOR(C)	1/20W 10Ω-J
R 0TC	103P500090	RESISTOR(C)	1/20W 47Ω-J
R 0TD	103P506010	RESISTOR(C)	1/20W 1MΩ-J
R 0TE	103P504020	RESISTOR(C)	1/20W 27kΩ-J
R 0TF	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 0TG	103P500090	RESISTOR(C)	1/20W 47Ω-J
R 0TH	103P506010	RESISTOR(C)	1/20W 1MΩ-J
R 0TJ	103P504040	RESISTOR(C)	1/20W 39kΩ-J
R 0TK	103P505020	RESISTOR(C)	1/20W 180kΩ-J
R 0TL	103P504020	RESISTOR(C)	1/20W 27kΩ-J
R 0TM	103P502000	RESISTOR(C)	1/20W 390Ω-J
R 0TN	103P509050	RESISTOR(C)	0Ω
R 0TP	103P509050	RESISTOR(C)	0Ω
R 0TQ	103P506010	RESISTOR(C)	1/20W 1MΩ-J
R 0TR	103P504060	RESISTOR(C)	1/20W 56kΩ-J
R 0TS	103P504020	RESISTOR(C)	1/20W 27kΩ-J
R 0TT	103P505040	RESISTOR(C)	1/20W 270kΩ-J
R 0TU	103P504040	RESISTOR(C)	1/20W 39kΩ-J
R 0TV	103P503090	RESISTOR(C)	1/20W 15kΩ-J
R 0TW	103P503090	RESISTOR(C)	1/20W 15kΩ-J
R 0TX	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 0TY	103P503040	RESISTOR(C)	1/20W 5.6kΩ-J
R 0TZ	103P509050	RESISTOR(C)	0Ω
R 1AA	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 1AB	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 1AC	103P503030	RESISTOR(C)	1/20W 4.7kΩ-J
R 1AF	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 1AH	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 1AJ	103P503090	RESISTOR(C)	1/20W 15kΩ-J
R 1AK	103P504020	RESISTOR(C)	1/20W 27kΩ-J
R 1AL	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 1AM	103P503080	RESISTOR(C)	1/20W 12kΩ-J
R 1AN	103P504010	RESISTOR(C)	1/20W 22kΩ-J
R 1AP	103P503040	RESISTOR(C)	1/20W 5.6kΩ-J
R 1AQ	103P501050	RESISTOR(C)	1/20W 150Ω-J
R 1AR	103P503010	RESISTOR(C)	1/20W 3.3kΩ-J
R 1AS	103P502080	RESISTOR(C)	1/20W 2.7kΩ-J
R 1AT	103P503040	RESISTOR(C)	1/20W 5.6kΩ-J
R 1AU	103P503020	RESISTOR(C)	1/20W 3.9kΩ-J
R 1AV	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 1AW	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 1AX	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 1AY	103P503080	RESISTOR(C)	1/20W 12kΩ-J
R 1BD	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 1BE	103P509050	RESISTOR(C)	0Ω
R 1BF	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 1BH	103P502030	RESISTOR(C)	1/20W 680Ω-J
R 1BK	103P503040	RESISTOR(C)	1/20W 5.6kΩ-J
R 1BL	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 1BM	103P506010	RESISTOR(C)	1/20W 1MΩ-J
R 1BN	103P509050	RESISTOR(C)	0Ω
R 1BP	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 1BQ	103P504070	RESISTOR(C)	1/20W 68kΩ-J
R 1BS	103P502080	RESISTOR(C)	1/20W 2.7kΩ-J
R 1BT	103P504060	RESISTOR(C)	1/20W 56kΩ-J
R 1BU	103P503080	RESISTOR(C)	1/20W 12kΩ-J

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 1BV	103P503080	RESISTOR(C)	1/20W 12kΩ-J
R 1BW	103P501050	RESISTOR(C)	1/20W 150Ω-J
R 1BX	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 1BY	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 1BZ	103P503080	RESISTOR(C)	1/20W 12kΩ-J
R 1CA	103P503030	RESISTOR(C)	1/20W 4.7kΩ-J
R 1CB	103P503010	RESISTOR(C)	1/20W 3.3kΩ-J
R 1CC	103P501070	RESISTOR(C)	1/20W 220Ω-J
R 1CD	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 1CE	103P502000	RESISTOR(C)	1/20W 390Ω-J
R 1CF	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 1CG	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 1CH	103P503030	RESISTOR(C)	1/20W 4.7kΩ-J
R 1CJ	103P503030	RESISTOR(C)	1/20W 4.7kΩ-J
R 1CK	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 1CN	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 1CP	103P502090	RESISTOR(C)	1/20W 2.2kΩ-J
R 1CQ	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 1CT	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 1CU	103P503010	RESISTOR(C)	1/20W 3.3kΩ-J
R 1CV	103P502060	RESISTOR(C)	1/20W 1.2kΩ-J
R 1CW	103P502040	RESISTOR(C)	1/20W 820Ω-J
R 1CX	103P503040	RESISTOR(C)	1/20W 5.6kΩ-J
R 1CY	103P503060	RESISTOR(C)	1/20W 8.2kΩ-J
R 1CZ	103P503000	RESISTOR(C)	1/20W 2.7kΩ-J
R 1DA	103P503000	RESISTOR(C)	1/20W 2.7kΩ-J
R 1DB	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 1DC	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 1DD	103P502020	RESISTOR(C)	1/20W 560Ω-J
R 1DE	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 1DF	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 1DG	103P504060	RESISTOR(C)	1/20W 56kΩ-J
R 1DH	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 1DJ	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 1DK	103P501070	RESISTOR(C)	1/20W 220Ω-J
R 1DL	103P501040	RESISTOR(C)	1/20W 120Ω-J
R 1DM	103P501090	RESISTOR(C)	1/20W 330Ω-J
R 1DN	103P501080	RESISTOR(C)	1/20W 270Ω-J
R 1DP	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 1DQ	103P502090	RESISTOR(C)	1/20W 2.2kΩ-J
R 1DR	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 1DS	103P503030	RESISTOR(C)	1/20W 4.7kΩ-J
R 1DT	103P502090	RESISTOR(C)	1/20W 2.2kΩ-J
R 1DU	103P501070	RESISTOR(C)	1/20W 220Ω-J
R 1DV	103P502090	RESISTOR(C)	1/20W 2.2kΩ-J
R 1DW	103P501070	RESISTOR(C)	1/20W 220Ω-J
R 1DZ	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 1EA	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 1EB	103P504070	RESISTOR(C)	1/20W 68kΩ-J
R 1EC	103P504070	RESISTOR(C)	1/20W 68kΩ-J
R 1EE	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 1EF	103P504000	RESISTOR(C)	1/20W 18kΩ-J
R 1EG	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 1EH	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 1EJ	103P504000	RESISTOR(C)	1/20W 18kΩ-J
R 1EK	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 1EQ	103P503030	RESISTOR(C)	1/20W 4.7kΩ-J
R 1ER	103P502030	RESISTOR(C)	1/20W 680Ω-J
R 1ES	103P502010	RESISTOR(C)	1/20W 470Ω-J
R 1ET	103P502060	RESISTOR(C)	1/20W 1.2kΩ-J
R 1EW	103P502070	RESISTOR(C)	1/20W 1.5kΩ-J
R 1EY	103P503010	RESISTOR(C)	1/20W 3.3kΩ-J
R 1EZ	103P503000	RESISTOR(C)	1/20W 2.7kΩ-J
R 1FA	103P503000	RESISTOR(C)	1/20W 2.7kΩ-J
R 1FB	103P503000	RESISTOR(C)	1/20W 2.7kΩ-J
R 1FC	103P504000	RESISTOR(C)	1/20W 18kΩ-J
R 1FP	103P503040	RESISTOR(C)	1/20W 5.6kΩ-J
R 1FQ	103P503040	RESISTOR(C)	1/20W 5.6kΩ-J
R 1FR	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 1FS	103P502090	RESISTOR(C)	1/20W 2.2kΩ-J
R 1FW	103P505030	RESISTOR(C)	1/20W 220kΩ-J
R 1FX	103P504020	RESISTOR(C)	1/20W 27kΩ-J
R 1FY	103P504060	RESISTOR(C)	1/20W 56kΩ-J
R 1FZ	103P504070	RESISTOR(C)	1/20W 68kΩ-J
R 1GA	103P504080	RESISTOR(C)	1/20W 82kΩ-J
R 1GB	103P503030	RESISTOR(C)	1/20W 4.7kΩ-J
R 1GC	103P503020	RESISTOR(C)	1/20W 3.9kΩ-J
R 1GD	103P502070	RESISTOR(C)	1/20W 1.5kΩ-J
R 1GF	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 1GG	103P501070	RESISTOR(C)	1/20W 220Ω-J
R 1GH	103P501050	RESISTOR(C)	1/20W 150Ω-J
R 1GJ	103P502030	RESISTOR(C)	1/20W 680Ω-J
R 1GL	103P504020	RESISTOR(C)	1/20W 27kΩ-J
R 1GN	103P503040	RESISTOR(C)	1/20W 5.6kΩ-J
R 1GP	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 1GQ	103P501090	RESISTOR(C)	1/20W 330Ω-J
R 1GT	103P503030	RESISTOR(C)	1/20W 4.7kΩ-J
R 1GV	103P501070	RESISTOR(C)	1/20W 220Ω-J
R 1GW	103P502090	RESISTOR(C)	1/20W 2.2kΩ-J
R 1GX	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 1GY	103P503010	RESISTOR(C)	1/20W 3.3kΩ-J
R 1GZ	103P503010	RESISTOR(C)	1/20W 3.3kΩ-J
R 1HA	103P503050	RESISTOR(C)	1/20W 6.8kΩ-J
R 1HC	103P503000	RESISTOR(C)	1/20W 2.7kΩ-J
R 1HD	103P504060	RESISTOR(C)	1/20W 56kΩ-J
R 1HE	103P505010	RESISTOR(C)	1/20W 150kΩ-J
R 1HF	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 1HG	103P501090	RESISTOR(C)	1/20W 330Ω-J
R 1HH	103P503010	RESISTOR(C)	1/20W 3.3kΩ-J
R 1HJ	103P502020	RESISTOR(C)	1/20W 560Ω-J
R 1HK	103P503040	RESISTOR(C)	1/20W 5.6kΩ-J
R 1HL	103P503040	RESISTOR(C)	1/20W 5.6kΩ-J
R 1HM	103P503000	RESISTOR(C)	1/20W 2.7kΩ-J
R 1HN	103P502080	RESISTOR(C)	1/20W 2.7kΩ-J
R 1HP	103P504000	RESISTOR(C)	1/20W 18kΩ-J
R 1HQ	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 1HR	103P503030	RESISTOR(C)	1/20W 4.7kΩ-J
R 1JA	103P501070	RESISTOR(C)	1/20W 220Ω-J
R 1JB	103P502090	RESISTOR(C)	1/20W 2.2kΩ-J

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 1JC	103P501070	RESISTOR(C)	1/20W 220Ω-J
R 1JD	103P503030	RESISTOR(C)	1/20W 4.7kΩ-J
R 1JE	103P503020	RESISTOR(C)	1/20W 3.9kΩ-J
R 1JF	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 1JH	103P503030	RESISTOR(C)	1/20W 4.7kΩ-J
R 203	103P509050	RESISTOR(C)	0Ω
R 208	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 209	103P502040	RESISTOR(C)	1/20W 820Ω-J
R 211	103P509050	RESISTOR(C)	0Ω
R 213	103P501060	RESISTOR(C)	1/20W 180Ω-J
R 214	103P509050	RESISTOR(C)	0Ω
R 216	103P503090	RESISTOR(C)	1/20W 15kΩ-J
R 217	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 218	103P503090	RESISTOR(C)	1/20W 15kΩ-J
R 219	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 221	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 222	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 223	103P500010	RESISTOR(C)	1/20W 10Ω-J
R 231	103P501000	RESISTOR(C)	1/20W 56Ω-J
R 232	103P401070	RESISTOR(C)	1/10W 220Ω-J
R 233	103P503030	RESISTOR(C)	1/20W 4.7kΩ-J
R 234	103P503020	RESISTOR(C)	1/20W 3.9kΩ-J
R 235	103P503060	RESISTOR(C)	1/20W 8.2kΩ-J
R 236	103P503020	RESISTOR(C)	1/20W 3.9kΩ-J
R 237	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 238	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 240	103P502070	RESISTOR(C)	1/20W 1.5kΩ-J
R 241	103P502090	RESISTOR(C)	1/20W 2.2kΩ-J
R 242	103P401070	RESISTOR(C)	1/10W 220Ω-J
R 243	103P501000	RESISTOR(C)	1/20W 56Ω-J
R 244	103P502070	RESISTOR(C)	1/20W 1.5kΩ-J
R 245	103P503030	RESISTOR(C)	1/20W 4.7kΩ-J
R 246	103P503020	RESISTOR(C)	1/20W 3.9kΩ-J
R 247	103P503050	RESISTOR(C)	1/20W 6.8kΩ-J
R 248	103P502090	RESISTOR(C)	1/20W 2.2kΩ-J
R 249	103P502090	RESISTOR(C)	1/20W 2.2kΩ-J
R 250	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 251	103P502090	RESISTOR(C)	1/20W 2.2kΩ-J
R 252	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 253	103P401040	RESISTOR(C)	1/10W 120Ω-J
R 254	103P501080	RESISTOR(C)	1/20W 270Ω-J
R 255	103P502090	RESISTOR(C)	1/20W 2.2kΩ-J
R 256	103P502000	RESISTOR(C)	1/20W 390Ω-J
R 257	103P502070	RESISTOR(C)	1/20W 1.5kΩ-J
R 258	103P502070	RESISTOR(C)	1/20W 1.5kΩ-J
R 259	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 260	103P503010	RESISTOR(C)	1/20W 3.3kΩ-J
R 261	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 262	103P502070	RESISTOR(C)	1/20W 1.5kΩ-J
R 263	103P502070	RESISTOR(C)	1/20W 1.5kΩ-J
R 264	103P502030	RESISTOR(C)	1/20W 680Ω-J
R 265	103P502030	RESISTOR(C)	1/20W 680Ω-J
R 266	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 267	103P502070	RESISTOR(C)	1/20W 1.5kΩ-J
R 268	103P502070	RESISTOR(C)	1/20W 1.5kΩ-J
R 270	103P502070	RESISTOR(C)	1/20W 1.5kΩ-J
R 271	103P500010	RESISTOR(C)	1/20W 10Ω-J
R 272	103P502070	RESISTOR(C)	1/20W 1.5kΩ-J
R 273	103P502070	RESISTOR(C)	1/20W 1.5kΩ-J
R 274	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 275	103P502010	RESISTOR(C)	1/20W 470Ω-J
R 276	103P502010	RESISTOR(C)	1/20W 470Ω-J
R 277	103P502030	RESISTOR(C)	1/20W 680Ω-J
R 278	103P502030	RESISTOR(C)	1/20W 680Ω-J
R 280	103P502070	RESISTOR(C)	1/20W 1.5kΩ-J
R 281	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 282	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 283	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 284	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 285	103P401040	RESISTOR(C)	1/10W 120Ω-J
R 286	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 287	103P401040	RESISTOR(C)	1/10W 120Ω-J
R 288	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 289	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 290	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 291	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 292	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 293	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 294	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 2AC	103P502090	RESISTOR(C)	1/20W 2.2kΩ-J
R 2AD	103P509050	RESISTOR(C)	0Ω
R 2AP	103P502010	RESISTOR(C)	1/20W 470Ω-J
R 2AQ	103P502010	RESISTOR(C)	1/20W 470Ω-J
R 2AR	103P502090	RESISTOR(C)	1/20W 2.2kΩ-J
R 2AS	103P509050	RESISTOR(C)	0Ω
R 2AT	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 2AU	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 2AX	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 2AZ	103P509050	RESISTOR(C)	0Ω
R 2BA	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 2BB	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 2BC	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 2BD	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 2BE	103P502020	RESISTOR(C)	1/20W 560Ω-J
R 2BF	103P503000	RESISTOR(C)	1/20W 2.7kΩ-J
R 2BK	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 2BL	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 2BN	103P506000	RESISTOR(C)	1/20W 820kΩ-J
R 2BQ	103P495010	RESISTOR(C)	1/16W 12kΩ-F
R 2BR	103P493060	RESISTOR(C)	1/16W 3kΩ-F
R 2BT	103P509050	RESISTOR(C)	0Ω
R 2BU	103P491050	RESISTOR(C)	1/16W 390Ω-F
R 2BW	103P504000	RESISTOR(C)	1/20W 18kΩ-J
R 2BX	103P503020	RESISTOR(C)	1/20W 3.9kΩ-J
R 2CD	103P502010	RESISTOR(C)	1/20W 470Ω-J
R 2CE	103P502010	RESISTOR(C)	1/20W 470Ω-J
R 2CF	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 2CG	103P502010	RESISTOR(C)	1/20W 470Ω-J

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 2CM	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 2CN	103P503020	RESISTOR(C)	1/20W 3.9kΩ-J
R 2CP	103P502020	RESISTOR(C)	1/20W 560Ω-J
R 2CQ	103P509050	RESISTOR(C)	0Ω
R 2CT	103P502010	RESISTOR(C)	1/20W 470Ω-J
R 2CU	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 2CX	103P502090	RESISTOR(C)	1/20W 2.2kΩ-J
R 2D0	103P504080	RESISTOR(C)	1/20W 82kΩ-J
R 2D1	103P503090	RESISTOR(C)	1/20W 15kΩ-J
R 2D4	103P504030	RESISTOR(C)	1/20W 33kΩ-J
R 2D5	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 2D6	103P501070	RESISTOR(C)	1/20W 220Ω-J
R 2D7	103P501070	RESISTOR(C)	1/20W 220Ω-J
R 2D8	103P501090	RESISTOR(C)	1/20W 330Ω-J
R 2D9	103P502070	RESISTOR(C)	1/20W 1.5kΩ-J
R 2E1	103P502090	RESISTOR(C)	1/20W 2.2kΩ-J
R 2E2	103P502090	RESISTOR(C)	1/20W 2.2kΩ-J
R 2E3	103P506000	RESISTOR(C)	1/20W 820kΩ-J
R 2E4	103P503010	RESISTOR(C)	1/20W 3.3kΩ-J
R 2E5	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 2E6	103P503010	RESISTOR(C)	1/20W 3.3kΩ-J
R 2E7	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 2EA	103P506010	RESISTOR(C)	1/20W 1MΩ-J
R 2EB	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 2EC	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 2ED	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 2EF	103P506010	RESISTOR(C)	1/20W 1MΩ-J
R 2EG	103P503000	RESISTOR(C)	1/20W 2.7kΩ-J
R 2EH	103P503000	RESISTOR(C)	1/20W 2.7kΩ-J
R 2EJ	103P503000	RESISTOR(C)	1/20W 2.7kΩ-J
R 2EK	103P503000	RESISTOR(C)	1/20W 2.7kΩ-J
R 2EL	103P502090	RESISTOR(C)	1/20W 2.2kΩ-J
R 2EM	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 2EN	103P502060	RESISTOR(C)	1/20W 1.2kΩ-J
R 2EP	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 2EQ	103P504020	RESISTOR(C)	1/20W 27kΩ-J
R 2ER	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 2ES	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 2ET	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 2F6	103P503040	RESISTOR(C)	1/20W 5.6kΩ-J
R 2F8	103P504020	RESISTOR(C)	1/20W 27kΩ-J
R 2F9	103P496060	RESISTOR(C)	1/16W 51kΩ-F
R 2G1	103P502040	RESISTOR(C)	1/20W 820Ω-J
R 2G2	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 2G3	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 2G5	103P502090	RESISTOR(C)	1/20W 2.2kΩ-J
R 2G6	103P504030	RESISTOR(C)	1/20W 33kΩ-J
R 2G7	103P504000	RESISTOR(C)	1/20W 18kΩ-J
R 2G8	103P504030	RESISTOR(C)	1/20W 33kΩ-J
R 2G9	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 2H1	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 2H2	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 2H3	103P508040	RESISTOR(C)	1/20W 2.2Ω-K
R 2H4	103P508040	RESISTOR(C)	1/20W 2.2Ω-K
R 2H5	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 2H6	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 2H7	103P503030	RESISTOR(C)	1/20W 4.7kΩ-J
R 2H8	103P503030	RESISTOR(C)	1/20W 4.7kΩ-J
R 2H9	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 2J2	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 2J3	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 2K0	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 2L0	103P501070	RESISTOR(C)	1/20W 220Ω-J
R 2L1	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 2L2	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 2L3	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 2L4	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 2L5	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 2L6	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 2L7	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 2P0	103P501050	RESISTOR(C)	1/20W 150Ω-J
R 2P1	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 2P2	103P504010	RESISTOR(C)	1/20W 22kΩ-J
R 2P3	103P509050	RESISTOR(C)	0Ω
R 2P4	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 2P5	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 2P6	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 2P7	103P502030	RESISTOR(C)	1/20W 680Ω-J
R 2P8	103P502000	RESISTOR(C)	1/20W 390Ω-J
R 2Q1	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 2Q2	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 2Q3	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 2Q4	103P504020	RESISTOR(C)	1/20W 27kΩ-J
R 2Q5	103P504010	RESISTOR(C)	1/20W 22kΩ-J
R 2Q6	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 2X1	103P501010	RESISTOR(C)	1/20W 68Ω-J
R 2X2	103P502020	RESISTOR(C)	1/20W 560Ω-J
R 2001	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 2002	103P502080	RESISTOR(C)	1/20W 2.7kΩ-J
R 2003	103P492040	RESISTOR(C)	1/16W 910Ω-F
R 2004	103P492050	RESISTOR(C)	1/16W 1kΩ-F
R 2005	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 2006	103P504010	RESISTOR(C)	1/20W 22kΩ-J
R 2007	103P503020	RESISTOR(C)	1/20W 3.9kΩ-J
R 2008	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 2009	103P502020	RESISTOR(C)	1/20W 560Ω-J
R 2010	103P492050	RESISTOR(C)	1/16W 1kΩ-F
R 2011	103P492050	RESISTOR(C)	1/16W 1kΩ-F
R 2012	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 2013	103P502010	RESISTOR(C)	1/20W 470Ω-J
R 2014	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 2015	103P501090	RESISTOR(C)	1/20W 330Ω-J
R 2021	103P504040	RESISTOR(C)	1/20W 39kΩ-J
R 2022	103P500010	RESISTOR(C)	1/20W 10Ω-J
R 2023	103P491000	RESISTOR(C)	1/16W 240Ω-F
R 2025	103P504040	RESISTOR(C)	1/20W 39kΩ-J
R 2026	103P503010	RESISTOR(C)	1/20W 3.3kΩ-J
R 2028	103P502010	RESISTOR(C)	1/20W 470Ω-J

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 2029	103P504070	RESISTOR(C)	1/20W 68kΩ-J
R 2032	103P504070	RESISTOR(C)	1/20W 68kΩ-J
R 2034	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 2038	103P503020	RESISTOR(C)	1/20W 3.9kΩ-J
R 2039	103P509050	RESISTOR(C)	0Ω
R 2040	103P509050	RESISTOR(C)	0Ω
R 2041	103P504010	RESISTOR(C)	1/20W 22kΩ-J
R 2042	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 2043	103P503020	RESISTOR(C)	1/20W 3.9kΩ-J
R 2044	103P504040	RESISTOR(C)	1/20W 39kΩ-J
R 2045	103P502070	RESISTOR(C)	1/20W 1.5kΩ-J
R 2046	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 2047	103P502070	RESISTOR(C)	1/20W 1.5kΩ-J
R 2048	103P503020	RESISTOR(C)	1/20W 3.9kΩ-J
R 2049	103P503020	RESISTOR(C)	1/20W 3.9kΩ-J
R 2050	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 2051	103P502000	RESISTOR(C)	1/20W 390Ω-J
R 2052	103P503010	RESISTOR(C)	1/20W 3.3kΩ-J
R 2053	103P502090	RESISTOR(C)	1/20W 2.2kΩ-J
R 2101	103P503040	RESISTOR(C)	1/20W 5.6kΩ-J
R 2102	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 2103	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 2104	103P503020	RESISTOR(C)	1/20W 3.9kΩ-J
R 2105	103P506010	RESISTOR(C)	1/20W 1MΩ-J
R 2201	103P504010	RESISTOR(C)	1/20W 22kΩ-J
R 2202	103P504020	RESISTOR(C)	1/20W 27kΩ-J
R 2203	103P504020	RESISTOR(C)	1/20W 27kΩ-J
R 2210	103P504030	RESISTOR(C)	1/20W 33kΩ-J
R 2211	103P504000	RESISTOR(C)	1/20W 18kΩ-J
R 2212	103P502070	RESISTOR(C)	1/20W 1.5kΩ-J
R 2213	103P502070	RESISTOR(C)	1/20W 1.5kΩ-J
R 2216	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 2217	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 2218	103P502070	RESISTOR(C)	1/20W 1.5kΩ-J
R 2219	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 2220	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 2221	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 2222	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 2230	103P504030	RESISTOR(C)	1/20W 33kΩ-J
R 2231	103P504000	RESISTOR(C)	1/20W 18kΩ-J
R 2232	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 2233	103P502070	RESISTOR(C)	1/20W 1.5kΩ-J
R 2234	103P502040	RESISTOR(C)	1/20W 820Ω-J
R 2235	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 2236	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 2237	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 2238	103P502040	RESISTOR(C)	1/20W 820Ω-J
R 2239	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 2240	103P502060	RESISTOR(C)	1/20W 1.2kΩ-J
R 2241	103P502060	RESISTOR(C)	1/20W 1.2kΩ-J
R 2242	103P502040	RESISTOR(C)	1/20W 820Ω-J
R 2243	103P502060	RESISTOR(C)	1/20W 1.2kΩ-J
R 2301	103P503030	RESISTOR(C)	1/20W 4.7kΩ-J
R 2302	103P502050	RESISTOR(C)	1/20W 1kΩ-J

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 2303	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 2304	103P503030	RESISTOR(C)	1/20W 4.7kΩ-J
R 2305	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 2306	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 2307	103P504010	RESISTOR(C)	1/20W 22kΩ-J
R 2308	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 301	103P506040	RESISTOR(C)	1/20W 1.8MΩ-K
R 302	103P504010	RESISTOR(C)	1/20W 22kΩ-J
R 303	103P503060	RESISTOR(C)	1/20W 8.2kΩ-J
R 304	103P504010	RESISTOR(C)	1/20W 22kΩ-J
R 305	103P502090	RESISTOR(C)	1/20W 2.2kΩ-J
R 306	103P502080	RESISTOR(C)	1/20W 2.7kΩ-J
R 307	103P502070	RESISTOR(C)	1/20W 1.5kΩ-J
R 309	103P503030	RESISTOR(C)	1/20W 4.7kΩ-J
R 310	103P502090	RESISTOR(C)	1/20W 2.2kΩ-J
R 311	103P503080	RESISTOR(C)	1/20W 12kΩ-J
R 312	103P503050	RESISTOR(C)	1/20W 6.8kΩ-J
R 313	103P502010	RESISTOR(C)	1/20W 470Ω-J
R 314	103P501090	RESISTOR(C)	1/20W 330Ω-J
R 315	103P503090	RESISTOR(C)	1/20W 15kΩ-J
R 316	103P503090	RESISTOR(C)	1/20W 15kΩ-J
R 317	103P500010	RESISTOR(C)	1/20W 10Ω-J
R 318	103P500090	RESISTOR(C)	1/20W 47Ω-J
R 319	103P504010	RESISTOR(C)	1/20W 22kΩ-J
R 320	103P501040	RESISTOR(C)	1/20W 120Ω-J
R 321	103P505000	RESISTOR(C)	1/20W 120kΩ-J
R 322	103P503020	RESISTOR(C)	1/20W 3.9kΩ-J
R 323	103P503020	RESISTOR(C)	1/20W 3.9kΩ-J
R 324	103P504000	RESISTOR(C)	1/20W 18kΩ-J
R 325	103P503080	RESISTOR(C)	1/20W 12kΩ-J
R 328	103P502000	RESISTOR(C)	1/20W 390Ω-J
R 331	103P508040	RESISTOR(C)	1/20W 2.2Ω-K
R 333	103P503080	RESISTOR(C)	1/20W 12kΩ-J
R 334	103P503010	RESISTOR(C)	1/20W 3.3kΩ-J
R 335	103P504010	RESISTOR(C)	1/20W 22kΩ-J
R 336	103P504010	RESISTOR(C)	1/20W 22kΩ-J
R 337	103P504010	RESISTOR(C)	1/20W 22kΩ-J
R 340	103P504010	RESISTOR(C)	1/20W 22kΩ-J
R 341	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 342	103P503090	RESISTOR(C)	1/20W 15kΩ-J
R 343	103P503030	RESISTOR(C)	1/20W 4.7kΩ-J
R 344	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 347	103P503010	RESISTOR(C)	1/20W 3.3kΩ-J
R 348	103P508040	RESISTOR(C)	1/20W 2.2Ω-K
R 3000	103P504030	RESISTOR(C)	1/20W 33kΩ-J
R 3001	103P506000	RESISTOR(C)	1/20W 820kΩ-J
R 3002	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 3003	103P502060	RESISTOR(C)	1/20W 1.2kΩ-J
R 3004	103P502040	RESISTOR(C)	1/20W 820Ω-J
R 3005	103P502030	RESISTOR(C)	1/20W 680Ω-J
R 3006	103P472060	RESISTOR(C)	1/10W 1.1kΩF
R 3007	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 3008	103P504000	RESISTOR(C)	1/20W 18kΩ-J
R 3009	103P503040	RESISTOR(C)	1/20W 5.6kΩ-J
R 3010	103P504090	RESISTOR(C)	1/20W 100kΩ-J

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 3011	103P475050	RESISTOR(C)	1/10W 18kΩ-F
○R 3012	103P474050	RESISTOR(C)	1/10W 6.8kΩ-F
R 3013	103P473060	RESISTOR(C)	1/10W 3kΩ-F
R 3014	103P502090	RESISTOR(C)	1/20W 2.2kΩ-J
R 3016	103P504060	RESISTOR(C)	1/20W 56kΩ-J
R 3017	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 3018	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 3019	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 3020	103P505070	RESISTOR(C)	1/20W 470kΩ-J
○R 3022	103P474060	RESISTOR(C)	1/10W 7.5kΩ-F
R 3023	103P503080	RESISTOR(C)	1/20W 12kΩ-J
R 3024	103P503090	RESISTOR(C)	1/20W 15kΩ-J
R 3025	103P502090	RESISTOR(C)	1/20W 2.2kΩ-J
R 3026	103P503060	RESISTOR(C)	1/20W 8.2kΩ-J
R 3027	103P472050	RESISTOR(C)	1/10W 1kΩ-F
○R 3028	103P473030	RESISTOR(C)	1/10W 2.2kΩ-F
R 3029	103P475050	RESISTOR(C)	1/10W 18kΩ-F
R 3030	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 3031	103P503040	RESISTOR(C)	1/20W 5.6kΩ-J
R 3032	103P504000	RESISTOR(C)	1/20W 18kΩ-J
R 3033	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 3034	103P472060	RESISTOR(C)	1/10W 1.1kΩF
R 3035	103P502030	RESISTOR(C)	1/20W 680Ω-J
R 3036	103P502040	RESISTOR(C)	1/20W 820Ω-J
R 3037	103P502060	RESISTOR(C)	1/20W 1.2kΩ-J
R 3038	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 3039	103P502090	RESISTOR(C)	1/20W 2.2kΩ-J
R 3040	103P501090	RESISTOR(C)	1/20W 330Ω-J
R 3041	103P504010	RESISTOR(C)	1/20W 22kΩ-J
R 3042	103P501090	RESISTOR(C)	1/20W 330Ω-J
R 3043	103P502090	RESISTOR(C)	1/20W 2.2kΩ-J
R 3044	103P504010	RESISTOR(C)	1/20W 22kΩ-J
R 3046	103P504000	RESISTOR(C)	1/20W 18kΩ-J
R 3047	103P504010	RESISTOR(C)	1/20W 22kΩ-J
R 3048	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 3049	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 3050	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 3051	103P501040	RESISTOR(C)	1/20W 120Ω-J
R 3052	103P501040	RESISTOR(C)	1/20W 120Ω-J
R 3053	103P502040	RESISTOR(C)	1/20W 820Ω-J
R 3054	103P502040	RESISTOR(C)	1/20W 820Ω-J
R 3055	103P502080	RESISTOR(C)	1/20W 2.7kΩ-J
R 3056	103P502080	RESISTOR(C)	1/20W 2.7kΩ-J
R 3057	103P503060	RESISTOR(C)	1/20W 8.2kΩ-J
R 3059	103P502020	RESISTOR(C)	1/20W 560Ω-J
R 3060	103P409050	RESISTOR(C)	1/10W 0Ω
R 3061	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 3062	103P504020	RESISTOR(C)	1/20W 27kΩ-J
R 3063	103P504030	RESISTOR(C)	1/20W 33kΩ-J
R 3064	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 3065	103P503020	RESISTOR(C)	1/20W 3.9kΩ-J
○R 3066	103P409000	RESISTOR(C)	1/10W 6.8Ω-K
R 3201	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 3202	103P503020	RESISTOR(C)	1/20W 3.9kΩ-J

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 3203	103P474090	RESISTOR(C)	1/10W 10kΩ-F
R 3204	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 3205	103P502020	RESISTOR(C)	1/20W 560Ω-J
R 3206	103P502020	RESISTOR(C)	1/20W 560Ω-J
R 3207	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 3208	103P500010	RESISTOR(C)	1/20W 10Ω-J
○R 3210	103P475010	RESISTOR(C)	1/10W 12kΩ-F
R 3211	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 3212	103P502030	RESISTOR(C)	1/20W 680Ω-J
R 3213	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 3216	103P504000	RESISTOR(C)	1/20W 18kΩ-J
R 3300	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 3301	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 3302	103P504010	RESISTOR(C)	1/20W 22kΩ-J
R 3303	103P504010	RESISTOR(C)	1/20W 22kΩ-J
R 3304	103P503090	RESISTOR(C)	1/20W 15kΩ-J
R 3305	103P503090	RESISTOR(C)	1/20W 15kΩ-J
R 3306	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 3307	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 3308	103P501080	RESISTOR(C)	1/20W 270Ω-J
R 3309	103P501080	RESISTOR(C)	1/20W 270Ω-J
R 3310	103P503090	RESISTOR(C)	1/20W 15kΩ-J
R 3311	103P503090	RESISTOR(C)	1/20W 15kΩ-J
R 3312	103P505000	RESISTOR(C)	1/20W 120kΩ-J
R 3313	103P505000	RESISTOR(C)	1/20W 120kΩ-J
R 3314	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 3315	103P502010	RESISTOR(C)	1/20W 470Ω-J
R 401	103P503030	RESISTOR(C)	1/20W 4.7kΩ-J
R 402	103P504060	RESISTOR(C)	1/20W 56kΩ-J
R 403	103P500070	RESISTOR(C)	1/20W 33Ω-J
R 404	103P500070	RESISTOR(C)	1/20W 33Ω-J
R 405	103P500070	RESISTOR(C)	1/20W 33Ω-J
R 406	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 407	103P500070	RESISTOR(C)	1/20W 33Ω-J
R 408	103P408050	RESISTOR(C)	1/10W 2.7Ω-K
R 409	103P408050	RESISTOR(C)	1/10W 2.7Ω-K
R 410	103P408050	RESISTOR(C)	1/10W 2.7Ω-K
R 411	103P408050	RESISTOR(C)	1/10W 2.7Ω-K
R 412	103P505050	RESISTOR(C)	1/20W 330kΩ-J
R 413	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 420	103P501070	RESISTOR(C)	1/20W 220Ω-J
R 421	103P502010	RESISTOR(C)	1/20W 470Ω-J
R 422	103P505050	RESISTOR(C)	1/20W 330kΩ-J
R 423	103P503010	RESISTOR(C)	1/20W 3.3kΩ-J
R 424	103P505050	RESISTOR(C)	1/20W 330kΩ-J
R 425	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 426	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 427	103P504010	RESISTOR(C)	1/20W 22kΩ-J
R 428	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 429	103P504010	RESISTOR(C)	1/20W 22kΩ-J
R 430	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 431	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 432	103P506010	RESISTOR(C)	1/20W 1MΩ-J
R 433	103P504080	RESISTOR(C)	1/20W 82kΩ-J

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 434	103P502090	RESISTOR(C)	1/20W 2.2kΩ-J
R 435	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 436	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 437	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 438	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 439	103P504070	RESISTOR(C)	1/20W 68kΩ-J
R 440	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 441	103P503040	RESISTOR(C)	1/20W 5.6kΩ-J
R 442	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 443	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 449	103P506000	RESISTOR(C)	1/20W 820kΩ-J
R 450	103P504060	RESISTOR(C)	1/20W 56kΩ-J
R 451	103P503030	RESISTOR(C)	1/20W 4.7kΩ-J
R 452	103P503040	RESISTOR(C)	1/20W 5.6kΩ-J
R 453	103P508040	RESISTOR(C)	1/20W 2.2Ω-K
R 454	103P508040	RESISTOR(C)	1/20W 2.2Ω-K
R 455	103P508040	RESISTOR(C)	1/20W 2.2Ω-K
R 456	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 457	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 458	103P408050	RESISTOR(C)	1/10W 2.7Ω-K
R 459	103P408050	RESISTOR(C)	1/10W 2.7Ω-K
R 460	103P408050	RESISTOR(C)	1/10W 2.7Ω-K
R 461	103P408050	RESISTOR(C)	1/10W 2.7Ω-K
R 462	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 463	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 464	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 480	103P500010	RESISTOR(C)	1/20W 10Ω-J
R 481	103P500090	RESISTOR(C)	1/20W 47Ω-J
R 482	103P504010	RESISTOR(C)	1/20W 22kΩ-J
R 483	103P508080	RESISTOR(C)	1/20W 4.7Ω-K
R 4A0	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 4A1	103P504070	RESISTOR(C)	1/20W 68kΩ-J
R 4A2	103P505040	RESISTOR(C)	1/20W 270kΩ-J
R 4A3	103P505050	RESISTOR(C)	1/20W 330kΩ-J
R 4A4	103P504060	RESISTOR(C)	1/20W 56kΩ-J
R 4A5	103P505010	RESISTOR(C)	1/20W 150kΩ-J
R 4A6	103P505050	RESISTOR(C)	1/20W 330kΩ-J
R 4A7	103P504030	RESISTOR(C)	1/20W 33kΩ-J
R 4A8	103P503030	RESISTOR(C)	1/20W 4.7kΩ-J
R 4B0	103P505010	RESISTOR(C)	1/20W 150kΩ-J
R 4B1	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 4B2	103P503040	RESISTOR(C)	1/20W 5.6kΩ-J
R 4B3	103P505010	RESISTOR(C)	1/20W 150kΩ-J
R 4B4	103P505010	RESISTOR(C)	1/20W 150kΩ-J
R 4B5	103P505030	RESISTOR(C)	1/20W 220kΩ-J
R 4B6	103P504070	RESISTOR(C)	1/20W 68kΩ-J
R 4B7	103P503040	RESISTOR(C)	1/20W 5.6kΩ-J
R 4B8	103P503070	RESISTOR(C)	1/20W 10kΩ-J
○R 4C0	103P471090	RESISTOR(C)	1/10W 560Ω-F
R 4C1	103P504020	RESISTOR(C)	1/20W 27kΩ-J
R 4C3	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 4C4	103P474090	RESISTOR(C)	1/10W 10kΩ-F
R 4C5	103P474090	RESISTOR(C)	1/10W 10kΩ-F
R 4C6	103P503030	RESISTOR(C)	1/20W 4.7kΩ-J

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 4C7	103P503030	RESISTOR(C)	1/20W 4.7kΩ-J
R 4C8	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 4C9	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 4F0	103P352070	RESISTOR(C)	1/8W 1.5kΩ-J
R 4F1	103P503030	RESISTOR(C)	1/20W 4.7kΩ-J
R 4F3	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 4F4	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 4F6	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 4F7	103P503060	RESISTOR(C)	1/20W 8.2kΩ-J
R 4S0	103P503020	RESISTOR(C)	1/20W 3.9kΩ-J
R 4S1	103P501010	RESISTOR(C)	1/20W 68Ω-J
R 4S2	103P501010	RESISTOR(C)	1/20W 68Ω-J
R 4001	103P503080	RESISTOR(C)	1/20W 12kΩ-J
R 4003	103P503080	RESISTOR(C)	1/20W 12kΩ-J
R 4004	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 4005	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 4006	103P503030	RESISTOR(C)	1/20W 4.7kΩ-J
R 4007	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 4010	103P502090	RESISTOR(C)	1/20W 2.2kΩ-J
R 4011	103P503030	RESISTOR(C)	1/20W 4.7kΩ-J
R 4020	103P509050	RESISTOR(C)	0Ω
R 4021	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 4023	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 4025	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 4026	103P473040	RESISTOR(C)	1/10W 2.4kΩ-F
R 4028	103P503050	RESISTOR(C)	1/20W 6.8kΩ-J
R 4029	103P504060	RESISTOR(C)	1/20W 56kΩ-J
R 4030	103P503090	RESISTOR(C)	1/20W 15kΩ-J
R 4031	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 4032	103P503090	RESISTOR(C)	1/20W 15kΩ-J
R 4033	103P505050	RESISTOR(C)	1/20W 330kΩ-J
R 4034	103P505050	RESISTOR(C)	1/20W 330kΩ-J
R 4035	103P505050	RESISTOR(C)	1/20W 330kΩ-J
R 4036	103P505050	RESISTOR(C)	1/20W 330kΩ-J
R 4037	103P505050	RESISTOR(C)	1/20W 330kΩ-J
R 4038	103P505050	RESISTOR(C)	1/20W 330kΩ-J
R 4039	103P505050	RESISTOR(C)	1/20W 330kΩ-J
R 4040	103P505050	RESISTOR(C)	1/20W 330kΩ-J
R 571	103P352000	RESISTOR(C)	1/8W 390Ω-J
R 572	103P359050	RESISTOR(C)	1/8W 0Ω
R 5A0	103P476050	RESISTOR(C)	1/10W 47kΩ-F
R 5A1	103P476050	RESISTOR(C)	1/10W 47kΩ-F
R 5A2	103P503000	RESISTOR(C)	1/20W 2.7kΩ-J
R 5A3	103P476050	RESISTOR(C)	1/10W 47kΩ-F
R 5A4	103P476070	RESISTOR(C)	1/10W 56kΩ-F
R 5A5	103P505070	RESISTOR(C)	1/20W 470kΩ-J
R 5A6	103P503050	RESISTOR(C)	1/20W 6.8kΩ-J
R 5A7	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 5A8	103P504020	RESISTOR(C)	1/20W 27kΩ-J
R 5AA	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 5AB	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 5AC	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 5AH	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 5AJ	103P503070	RESISTOR(C)	1/20W 10kΩ-J

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 5AP	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 5AQ	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 5B3	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 5B4	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 5B5	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 5B6	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 5B7	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 5B8	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 5B9	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 5BB	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 5BC	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 5BD	103P501010	RESISTOR(C)	1/20W 68Ω-J
R 5BX	103P502090	RESISTOR(C)	1/20W 2.2kΩ-J
○R 5C0	103P506020	RESISTOR(C)	1/16W 1.2MΩ-K
R 5C1	103P503090	RESISTOR(C)	1/20W 15kΩ-J
R 5C2	103P504040	RESISTOR(C)	1/20W 39kΩ-J
R 5C3	103P502070	RESISTOR(C)	1/20W 1.5kΩ-J
R 5C5	103P505040	RESISTOR(C)	1/20W 270kΩ-J
R 5C7	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 5CV	103P500010	RESISTOR(C)	1/20W 10Ω-J
R 5D0	103P501040	RESISTOR(C)	1/20W 120Ω-J
R 5D1	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 5D2	103P504070	RESISTOR(C)	1/20W 68kΩ-J
R 5D3	103P502030	RESISTOR(C)	1/20W 680Ω-J
R 5D4	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 5D5	103P504070	RESISTOR(C)	1/20W 68kΩ-J
R 5D6	103P502030	RESISTOR(C)	1/20W 680Ω-J
R 5D7	103P401050	RESISTOR(C)	1/10W 150Ω-J
R 5D8	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 5D9	103P503030	RESISTOR(C)	1/20W 4.7kΩ-J
R 5DA	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 5DB	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 5DC	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 5DH	103P503060	RESISTOR(C)	1/20W 8.2kΩ-J
R 5DJ	103P504030	RESISTOR(C)	1/20W 33kΩ-J
R 5ED	103P501040	RESISTOR(C)	1/20W 120Ω-J
R 5F0	103P504030	RESISTOR(C)	1/20W 33kΩ-J
R 5F1	103P505000	RESISTOR(C)	1/20W 120kΩ-J
R 5F2	103P505040	RESISTOR(C)	1/20W 270kΩ-J
R 5F3	103P505000	RESISTOR(C)	1/20W 120kΩ-J
R 5F4	103P505000	RESISTOR(C)	1/20W 120kΩ-J
R 5F5	103P503050	RESISTOR(C)	1/20W 6.8kΩ-J
R 5F6	103P504030	RESISTOR(C)	1/20W 33kΩ-J
R 5FA	103P359050	RESISTOR(C)	1/8W 0Ω
R 5G0	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 5G1	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 5G4	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 5GA	103P504060	RESISTOR(C)	1/20W 56kΩ-J
R 5H0	103P504080	RESISTOR(C)	1/20W 82kΩ-J
R 5H1	103P506010	RESISTOR(C)	1/20W 1MΩ-J
R 5H7	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 5H8	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 5H9	103P503090	RESISTOR(C)	1/20W 15kΩ-J
R 5J0	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 5J1	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 5K0	103P502070	RESISTOR(C)	1/20W 1.5kΩ-J
R 5K1	103P504080	RESISTOR(C)	1/20W 82kΩ-J
R 5K4	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 5K5	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 5K6	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 5LA	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 5LB	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 5LC	103P501060	RESISTOR(C)	1/20W 180Ω-J
R 5MA	103P502060	RESISTOR(C)	1/20W 1.2kΩ-J
R 5MB	103P502060	RESISTOR(C)	1/20W 1.2kΩ-J
R 5MC	103P501030	RESISTOR(C)	1/20W 100Ω-J
○R 5ZA	103P350090	RESISTOR(C)	1/8W 47Ω-J
○R 5ZB	103P350090	RESISTOR(C)	1/8W 47Ω-J
R 5ZD	103P509050	RESISTOR(C)	0Ω
R 5ZE	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 5ZF	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 5ZG	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 5ZH	103P501060	RESISTOR(C)	1/20W 180Ω-J
R 5ZJ	103P502000	RESISTOR(C)	1/20W 390Ω-J
R 601	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 602	103P502060	RESISTOR(C)	1/20W 1.2kΩ-J
R 606	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 607	103P502060	RESISTOR(C)	1/20W 1.2kΩ-J
R 608	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 609	103P502060	RESISTOR(C)	1/20W 1.2kΩ-J
R 610	103P503040	RESISTOR(C)	1/20W 5.6kΩ-J
R 611	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 612	103P502060	RESISTOR(C)	1/20W 1.2kΩ-J
R 613	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 614	103P502040	RESISTOR(C)	1/20W 820Ω-J
R 615	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 616	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 617	103P504040	RESISTOR(C)	1/20W 39kΩ-J
R 618	103P503020	RESISTOR(C)	1/20W 3.9kΩ-J
R 619	103P503090	RESISTOR(C)	1/20W 15kΩ-J
R 620	103P502090	RESISTOR(C)	1/20W 2.2kΩ-J
R 621	103P503090	RESISTOR(C)	1/20W 15kΩ-J
R 622	103P502080	RESISTOR(C)	1/20W 2.7kΩ-J
R 623	103P504060	RESISTOR(C)	1/20W 56kΩ-J
R 624	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 625	103P502080	RESISTOR(C)	1/20W 2.7kΩ-J
R 626	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 627	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 628	103P502060	RESISTOR(C)	1/20W 1.2kΩ-J
R 629	103P501080	RESISTOR(C)	1/20W 270Ω-J
R 633	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 634	103P502000	RESISTOR(C)	1/20W 390Ω-J
R 635	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 636	103P501080	RESISTOR(C)	1/20W 270Ω-J
R 638	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 639	103P509050	RESISTOR(C)	0Ω
R 640	103P501070	RESISTOR(C)	1/20W 220Ω-J
R 643	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 644	103P501090	RESISTOR(C)	1/20W 330Ω-J

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 645	103P502090	RESISTOR(C)	1/20W 2.2kΩ-J
R 646	103P502060	RESISTOR(C)	1/20W 1.2kΩ-J
R 647	103P502000	RESISTOR(C)	1/20W 390Ω-J
R 648	103P501070	RESISTOR(C)	1/20W 220Ω-J
R 649	103P501090	RESISTOR(C)	1/20W 330Ω-J
R 650	103P503020	RESISTOR(C)	1/20W 3.9kΩ-J
R 652	103P501080	RESISTOR(C)	1/20W 270Ω-J
R 653	103P503090	RESISTOR(C)	1/20W 15kΩ-J
R 654	103P501060	RESISTOR(C)	1/20W 180Ω-J
R 655	103P503020	RESISTOR(C)	1/20W 3.9kΩ-J
R 657	103P504010	RESISTOR(C)	1/20W 22kΩ-J
R 658	103P504010	RESISTOR(C)	1/20W 22kΩ-J
R 659	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 660	103P503000	RESISTOR(C)	1/20W 2.7kΩ-J
R 661	103P503030	RESISTOR(C)	1/20W 4.7kΩ-J
R 662	103P503040	RESISTOR(C)	1/20W 5.6kΩ-J
R 663	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 664	103P504060	RESISTOR(C)	1/20W 56kΩ-J
R 665	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 666	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 673	103P509050	RESISTOR(C)	0Ω
R 7AA	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 7AB	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 7AC	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 7AD	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 7AE	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 7AG	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 7AH	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 7AJ	103P509050	RESISTOR(C)	0Ω
R 7AK	103P509050	RESISTOR(C)	0Ω
R 7AQ	103P504000	RESISTOR(C)	1/20W 18kΩ-J
R 7AT	103P504000	RESISTOR(C)	1/20W 18kΩ-J
R 7AW	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 7BD	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 7BE	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 7BF	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 7BG	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 7BP	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 7BR	103P503080	RESISTOR(C)	1/20W 12kΩ-J
R 7BS	103P504010	RESISTOR(C)	1/20W 22kΩ-J
R 7BT	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 7BU	103P504080	RESISTOR(C)	1/20W 82kΩ-J
R 7BV	103P502000	RESISTOR(C)	1/20W 390Ω-J
R 7BW	103P509050	RESISTOR(C)	0Ω
R 7BX	103P501070	RESISTOR(C)	1/20W 220Ω-J
R 7BY	103P502000	RESISTOR(C)	1/20W 390Ω-J
R 7CA	103P504010	RESISTOR(C)	1/20W 22kΩ-J
R 7CB	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 7CC	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 7CD	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 7CE	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 7CF	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 7CV	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 7CX	103P504000	RESISTOR(C)	1/20W 18kΩ-J

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 7DA	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 7DB	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 7DC	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 7DD	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 7DE	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 7DF	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 7DG	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 7DH	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 7DJ	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 7HB	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 7HD	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 7HE	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 7HF	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 7HG	103P509050	RESISTOR(C)	0Ω
R 7HH	103P509050	RESISTOR(C)	0Ω
R 7HN	103P509050	RESISTOR(C)	0Ω
R 7PF	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 7PL	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 7RA	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 7RB	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 7WA	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 7WB	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 7WC	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 7WD	103P505030	RESISTOR(C)	1/20W 220kΩ-J
R 7WE	103P503020	RESISTOR(C)	1/20W 3.9kΩ-J
R 7WF	103P503020	RESISTOR(C)	1/20W 3.9kΩ-J
R 7WG	103P504040	RESISTOR(C)	1/20W 39kΩ-J
R 7WH	103P504020	RESISTOR(C)	1/20W 27kΩ-J
R 7WL	103P504040	RESISTOR(C)	1/20W 39kΩ-J
R 7WM	103P504020	RESISTOR(C)	1/20W 27kΩ-J
R 7WN	103P503020	RESISTOR(C)	1/20W 3.9kΩ-J
R 7WP	103P503020	RESISTOR(C)	1/20W 3.9kΩ-J
R 7WQ	103P505030	RESISTOR(C)	1/20W 220kΩ-J
R 7WR	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 7WS	103P504010	RESISTOR(C)	1/20W 22kΩ-J
R 7WT	103P504010	RESISTOR(C)	1/20W 22kΩ-J
R 7WU	103P504010	RESISTOR(C)	1/20W 22kΩ-J
R 7WV	103P505090	RESISTOR(C)	1/20W 680kΩ-J
R 7WW	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 7WX	103P509050	RESISTOR(C)	0Ω
R 7V01	103P359050	RESISTOR(C)	1/8W 0Ω
R 7V02	103P359050	RESISTOR(C)	1/8W 0Ω
R 7V03	103P359050	RESISTOR(C)	1/8W 0Ω
R 7V04	103P359050	RESISTOR(C)	1/8W 0Ω
R 7V05	103P359050	RESISTOR(C)	1/8W 0Ω
R 7V06	103P359050	RESISTOR(C)	1/8W 0Ω
R 7V07	103P359050	RESISTOR(C)	1/8W 0Ω
R 7V08	103P359050	RESISTOR(C)	1/8W 0Ω
R 7V09	103P359050	RESISTOR(C)	1/8W 0Ω
R 7W01	103P359050	RESISTOR(C)	1/8W 0Ω
R 7W02	103P359050	RESISTOR(C)	1/8W 0Ω
R 7W03	103P359050	RESISTOR(C)	1/8W 0Ω
R 7W04	103P359050	RESISTOR(C)	1/8W 0Ω
R 7W05	103P359050	RESISTOR(C)	1/8W 0Ω

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 7W06	103P359050	RESISTOR(C)	1/8W 0Ω
R 7W07	103P359050	RESISTOR(C)	1/8W 0Ω
R 7W08	103P359050	RESISTOR(C)	1/8W 0Ω
R 7W09	103P359050	RESISTOR(C)	1/8W 0Ω
R 7X01	103P359050	RESISTOR(C)	1/8W 0Ω
R 7X02	103P359050	RESISTOR(C)	1/8W 0Ω
R 7X03	103P359050	RESISTOR(C)	1/8W 0Ω
R 7X04	103P359050	RESISTOR(C)	1/8W 0Ω
R 7X05	103P359050	RESISTOR(C)	1/8W 0Ω
R 7X06	103P359050	RESISTOR(C)	1/8W 0Ω
R 7X07	103P359050	RESISTOR(C)	1/8W 0Ω
R 7X08	103P359050	RESISTOR(C)	1/8W 0Ω
R 7X09	103P359050	RESISTOR(C)	1/8W 0Ω
R 7Y01	103P359050	RESISTOR(C)	1/8W 0Ω
R 7Y02	103P359050	RESISTOR(C)	1/8W 0Ω
R 7Y03	103P359050	RESISTOR(C)	1/8W 0Ω
R 7Y04	103P359050	RESISTOR(C)	1/8W 0Ω
R 7Y05	103P359050	RESISTOR(C)	1/8W 0Ω
R 7Y06	103P359050	RESISTOR(C)	1/8W 0Ω
R 7Y07	103P359050	RESISTOR(C)	1/8W 0Ω
R 8A1	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 8A2	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 8A3	103P506010	RESISTOR(C)	1/20W 1MΩ-J
R 8A9	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 8B0	103P509050	RESISTOR(C)	0Ω
R 8B1	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 8B2	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 8B3	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 8B4	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 8B5	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 8B6	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 8C6	103P502030	RESISTOR(C)	1/20W 680Ω-J
R 8000	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 8001	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 8002	103P505000	RESISTOR(C)	1/20W 120kΩ-J
R 8004	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 8005	103P509050	RESISTOR(C)	0Ω
R 8006	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 8007	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 8008	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 8014	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 8017	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 8018	103P503010	RESISTOR(C)	1/20W 3.3kΩ-J
R 8019	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 8020	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 8021	103P503010	RESISTOR(C)	1/20W 3.3kΩ-J
○R 8028	103P505060	RESISTOR(C)	1/16W 390kΩ
R 8029	103P505020	RESISTOR(C)	1/20W 180kΩ-J
R 8030	103P506010	RESISTOR(C)	1/20W 1MΩ-J
R 8031	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 8035	103P503090	RESISTOR(C)	1/20W 15kΩ-J
R 8036	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 8037	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 8701	103P505020	RESISTOR(C)	1/20W 180kΩ-J
R 8702	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 8703	103P505010	RESISTOR(C)	1/20W 150kΩ-J
R 8704	103P505010	RESISTOR(C)	1/20W 150kΩ-J
R 8705	103P504030	RESISTOR(C)	1/20W 33kΩ-J
R 8706	103P504030	RESISTOR(C)	1/20W 33kΩ-J
R 8707	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 8708	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 8709	103P506010	RESISTOR(C)	1/20W 1MΩ-J
R 8710	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 8711	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 8712	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 8713	103P504070	RESISTOR(C)	1/20W 68kΩ-J
R 8714	103P504070	RESISTOR(C)	1/20W 68kΩ-J
R 8715	103P504070	RESISTOR(C)	1/20W 68kΩ-J
R 8716	103P504070	RESISTOR(C)	1/20W 68kΩ-J
R 8717	103P504070	RESISTOR(C)	1/20W 68kΩ-J
R 8718	103P504070	RESISTOR(C)	1/20W 68kΩ-J
R 8719	103P504070	RESISTOR(C)	1/20W 68kΩ-J
R 8720	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 8722	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 8723	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 8724	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 8725	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 8726	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 8728	103P509050	RESISTOR(C)	0Ω
R 8730	103P504010	RESISTOR(C)	1/20W 22kΩ-J
R 8731	103P506050	RESISTOR(C)	1/20W 2.2MΩ-J
R 8732	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 8733	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 8734	103P503030	RESISTOR(C)	1/20W 4.7kΩ-J
R 8735	103P503030	RESISTOR(C)	1/20W 4.7kΩ-J
R 8737	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 8738	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 8739	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 8740	103P503070	RESISTOR(C)	1/20W 10kΩ-J
R 8741	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 8743	103P505000	RESISTOR(C)	1/20W 120kΩ-J
R 8744	103P505000	RESISTOR(C)	1/20W 120kΩ-J
R 8745	103P505000	RESISTOR(C)	1/20W 120kΩ-J
R 8746	103P505000	RESISTOR(C)	1/20W 120kΩ-J
R 8747	103P505000	RESISTOR(C)	1/20W 120kΩ-J
R 8748	103P505000	RESISTOR(C)	1/20W 120kΩ-J
R 8749	103P505000	RESISTOR(C)	1/20W 120kΩ-J
R 8750	103P506010	RESISTOR(C)	1/20W 1MΩ-J
R 8751	103P506010	RESISTOR(C)	1/20W 1MΩ-J
R 8752	103P505080	RESISTOR(C)	1/20W 560kΩ-J
R 8753	103P506010	RESISTOR(C)	1/20W 1MΩ-J
R 8754	103P506010	RESISTOR(C)	1/20W 1MΩ-J
R 8755	103P502080	RESISTOR(C)	1/20W 2.7kΩ-J
R 8757	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 8760	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 8761	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 904	103P504060	RESISTOR(C)	1/20W 56kΩ-J
R 911	103P503070	RESISTOR(C)	1/20W 10kΩ-J

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 912	103P502090	RESISTOR(C)	1/20W 2.2kΩ-J
R 920	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 921	103P503040	RESISTOR(C)	1/20W 5.6kΩ-J
R 922	103P503080	RESISTOR(C)	1/20W 12kΩ-J
R 923	103P402070	RESISTOR(C)	1/10W 1.5kΩ-J
R 924	103P402070	RESISTOR(C)	1/10W 1.5kΩ-J
○R 925	103P475060	RESISTOR(C)	1/10W 20kΩ-F
R 926	103P475050	RESISTOR(C)	1/10W 18kΩ-F
R 930	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 931	103P502000	RESISTOR(C)	1/20W 390Ω-J
R 932	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 933	103P474020	RESISTOR(C)	1/10W 5.1kΩ-F
○R 934	103P471020	RESISTOR(C)	1/10W 300Ω-F
○R 935	103P474070	RESISTOR(C)	1/10W 8.2kΩ-F
R 936	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 940	103P502000	RESISTOR(C)	1/20W 390Ω-J
R 941	103P502000	RESISTOR(C)	1/20W 390Ω-J
R 942	103P352040	RESISTOR(C)	1/8W 820Ω-J
R 943	103P352040	RESISTOR(C)	1/8W 820Ω-J
R 950	103P505000	RESISTOR(C)	1/20W 120kΩ-J
R 951	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 952	103P506010	RESISTOR(C)	1/20W 1MΩ-J
R 953	103P502060	RESISTOR(C)	1/20W 1.2kΩ-J
R 954	103P502010	RESISTOR(C)	1/20W 470Ω-J
R 955	103P503000	RESISTOR(C)	1/20W 2.7kΩ-J
R 960	103P402030	RESISTOR(C)	1/10W 680Ω-J
R 961	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 962	103P500090	RESISTOR(C)	1/20W 47Ω-J
R 963	103P504070	RESISTOR(C)	1/20W 68kΩ-J
R 964	103P504010	RESISTOR(C)	1/20W 22kΩ-J
R 970	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 971	103P504090	RESISTOR(C)	1/20W 100kΩ-J
R 972	103P505020	RESISTOR(C)	1/20W 180kΩ-J
R 973	103P505000	RESISTOR(C)	1/20W 120kΩ-J
R 974	103P504050	RESISTOR(C)	1/20W 47kΩ-J
R 975	103P503030	RESISTOR(C)	1/20W 4.7kΩ-J
R 980	103P502050	RESISTOR(C)	1/20W 1kΩ-J
R 981	103P479010	RESISTOR(C)	1/10W 560kΩ-F
R 982	103P475050	RESISTOR(C)	1/10W 18kΩ-F
R 983	103P502060	RESISTOR(C)	1/20W 1.2kΩ-J

CAPACITORS AND TRIMMERS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
○	154P334050	CAPACITOR(C)	CH50V 270pF-J
C 0SA	181P500010	CAPACITOR(C)	6.3V 22μF-M
C 0SB	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 0SC	154P341030	CAPACITOR(C)	CH50V 12pF-J
C 0SE	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 0SF	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 0SG	181P500030	CAPACITOR(C)	04W 6.3V 47μF-M
C 0SH	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 0SJ	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 0SK	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 0SL	141P143050	CAPACITOR(C)	F50V 1000pF-Z
C 0SM	154P341090	CAPACITOR(C)	CH50V 22pF-J
C 0SN	154P342030	CAPACITOR(C)	CH50V 33pF-J
C 0SP	154P342070	CAPACITOR(C)	CH50V 47pF-J
C 0SQ	154P342030	CAPACITOR(C)	CH50V 33pF-J
C 0SR	181P500030	CAPACITOR(C)	04W 6.3V 47μF-M
C 0SS	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 0ST	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 0SU	154P342050	CAPACITOR(C)	CH50V 39pF-J
C 0SX	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 0SZ	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 0TA	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 0TB	181P502030	CAPACITOR(C)	16V 10μF-M
C 0TC	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 0TE	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 0TF	141P143050	CAPACITOR(C)	F50V 1000pF-Z
C 0TG	181P506010	CAPACITOR(C)	50V 1μF-M
C 0TH	141P143050	CAPACITOR(C)	F50V 1000pF-Z
C 0TJ	181P506010	CAPACITOR(C)	50V 1μF-M
C 0TK	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 0TL	181P502060	CAPACITOR(C)	16V 47μF-M
C 0TM	181P506010	CAPACITOR(C)	50V 1μF-M
C 0TN	181P504090	CAPACITOR(C)	35V 4.7μF-M
C 0TP	181P504090	CAPACITOR(C)	35V 4.7μF-M
C 0TQ	181P506010	CAPACITOR(C)	50V 1μF-M
C 0TR	181P506010	CAPACITOR(C)	50V 1μF-M
C 0TS	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 0TT	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 0TU	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 0TV	181P506010	CAPACITOR(C)	50V 1μF-M
C 0TW	181P500010	CAPACITOR(C)	6.3V 22μF-M
C 0TX	181P502040	CAPACITOR(C)	04W 16V 22μF-M
C 0TY	181P503090	CAPACITOR(C)	25V 33μF-M
C 0TZ	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 0UA	181P502040	CAPACITOR(C)	04W 16V 22μF-M
C 0UB	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 0UC	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 0UD	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 0UE	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 0UF	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 0UG	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 0UH	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 0UJ	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 0UK	154P341050	CAPACITOR(C)	CH50V 15pF-J
C 1AA	189P121060	CAPACITOR(C)	6.3V 22μF-M
C 1AB	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 1AC	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 1AD	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 1AE	181P500040	CAPACITOR(C)	6.3V 100μF-M
C 1AF	141P134010	CAPACITOR(C)	F50V 0.047μF
C 1AG	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 1AH	141P134010	CAPACITOR(C)	F50V 0.047μF
C 1AJ	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 1AK	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 1AL	141P134010	CAPACITOR(C)	F50V 0.047μF
C 1AM	141P134010	CAPACITOR(C)	F50V 0.047μF

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
C 1AN	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 1AP	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 1AQ	141P134010	CAPACITOR(C)	F50V 0.047μF
C 1AR	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 1AS	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 1AT	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 1AU	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 1AV	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 1AW	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 1AX	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 1AY	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 1AZ	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 1BA	189P123070	CAPACITOR(C)	16V 10μF-M
C 1BB	181P512020	CAPACITOR(C)	04W 16V 4.7μF-M
C 1BC	189P123070	CAPACITOR(C)	16V 10μF-M
C 1BD	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 1BE	141P134010	CAPACITOR(C)	F50V 0.047μF
C 1BF	141P134010	CAPACITOR(C)	F50V 0.047μF
C 1BG	181P507080	CAPACITOR(C)	4V 33μF-M
C 1BH	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 1BJ	189P122010	CAPACITOR(C)	10V 2.2μF-M
C 1BK	189P122030	CAPACITOR(C)	10V 4.7μF-M
C 1BN	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 1BP	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 1BQ	181P500010	CAPACITOR(C)	6.3V 22μF-M
C 1BR	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 1BS	141P136030	CAPACITOR(C)	F16V 1μF-Z
C 1BT	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 1BU	181P500010	CAPACITOR(C)	6.3V 22μF-M
C 1BV	189P121010	CAPACITOR(C)	6.3V 3.3μF-M
C 1BW	154P355000	CAPACITOR(C)	SL50V 390pF-J
C 1BX	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 1BY	154P343050	CAPACITOR(C)	CH50V 100pF-J
C 1BZ	181P510010	CAPACITOR(C)	04W 6.3V 22μF-M
C 1CA	181P500040	CAPACITOR(C)	6.3V 100μF-M
C 1CB	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 1CC	181P502040	CAPACITOR(C)	04W 16V 22μF-M
C 1CD	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 1CE	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 1CG	181P502040	CAPACITOR(C)	04W 16V 22μF-M
C 1CH	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 1CJ	181P500010	CAPACITOR(C)	6.3V 22μF-M
C 1CK	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 1CL	181P507080	CAPACITOR(C)	4V 33μF-M
C 1CM	181P500040	CAPACITOR(C)	6.3V 100μF-M
C 1CN	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 1CV	181P507080	CAPACITOR(C)	4V 33μF-M
C 1CW	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 1CX	181P500010	CAPACITOR(C)	6.3V 22μF-M
C 1CY	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 1CZ	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 1DA	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 1DB	189P123040	C-TANTALUM(C)	16V 3.3μF
C 1DC	181P510010	CAPACITOR(C)	04W 6.3V 22μF-M
C 1DD	181P502030	CAPACITOR(C)	16V 10μF-M
C 1DE	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 1DF	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 1DG	141P143050	CAPACITOR(C)	F50V 1000pF-Z
C 1DH	181P510070	CAPACITOR(C)	04W 10V 10μF-M
C 1DJ	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 1DK	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 1DL	181P507080	CAPACITOR(C)	4V 33μF-M
C 1DM	181P510070	CAPACITOR(C)	04W 10V 10μF-M
C 1EA	154P343030	CAPACITOR(C)	CH50V 82pF-J
C 1EB	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 201	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
○C 202	154P325080	CAPACITOR(C)	SL50V 820pF
C 203	154P354040	CAPACITOR(C)	SL50V 220pF-J
C 204	154P352080	CAPACITOR(C)	SL50V 47pF-J
C 205	154P354040	CAPACITOR(C)	SL50V 220pF-J
C 206	154P354020	CAPACITOR(C)	SL50V 180pF-J
C 207	154P354080	CAPACITOR(C)	SL50V 330pF-J
C 208	154P354040	CAPACITOR(C)	SL50V 220pF-J
C 210	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 211	154P352040	CAPACITOR(C)	SL50V 33pF-J
C 212	154P354080	CAPACITOR(C)	SL50V 330pF-J
C 219	154P352060	CAPACITOR(C)	SL50V 39pF-J
C 220	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 221	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 222	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 223	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 224	154P353080	CAPACITOR(C)	SL50V 100pF-J
C 225	154P354000	CAPACITOR(C)	SL50V 150pF-J
C 226	154P354000	CAPACITOR(C)	SL50V 150pF-J
C 227	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 228	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 229	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 230	141P136030	CAPACITOR(C)	F16V 1μF-Z
C 232	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 233	141P140090	CAPACITOR(C)	B50V 1000pF-K
C 234	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 235	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 236	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 237	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 238	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 239	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 240	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 241	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 244	154P350070	CAPACITOR(C)	SL50V 5pF-C
C 248	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 249	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 250	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 252	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 253	141P142010	CAPACITOR(C)	B25V 0.01μF-K
C 254	141P142010	CAPACITOR(C)	B25V 0.01μF-K
C 256	154P353000	CAPACITOR(C)	SL50V 56pF-J
C 271	181P502040	CAPACITOR(C)	04W 16V 22μF-M
C 272	181P502040	CAPACITOR(C)	04W 16V 22μF-M
C 273	181P500030	CAPACITOR(C)	04W 6.3V 47μF-M

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
C 278	141P136030	CAPACITOR(C)	F16V 1 μ F-Z
C 279	141P136030	CAPACITOR(C)	F16V 1 μ F-Z
C 280	141P136030	CAPACITOR(C)	F16V 1 μ F-Z
C 281	141P136030	CAPACITOR(C)	F16V 1 μ F-Z
C 282	141P143080	CAPACITOR(C)	F50V 0.01 μ F-Z
C 285	141P143080	CAPACITOR(C)	F50V 0.01 μ F-Z
C 292	141P136030	CAPACITOR(C)	F16V 1 μ F-Z
C 293	141P136030	CAPACITOR(C)	F16V 1 μ F-Z
C 295	141P143080	CAPACITOR(C)	F50V 0.01 μ F-Z
C 297	141P132030	CAPACITOR(C)	B50V 0.015 μ F
C 2AA	141P142010	CAPACITOR(C)	B25V 0.01 μ F-K
C 2AB	181P500010	CAPACITOR(C)	6.3V 22 μ F-M
C 2AE	141P140090	CAPACITOR(C)	B50V 1000pF-K
C 2AF	141P142010	CAPACITOR(C)	B25V 0.01 μ F-K
C 2AH	141P142010	CAPACITOR(C)	B25V 0.01 μ F-K
C 2AK	141P134010	CAPACITOR(C)	F50V 0.047 μ F
C 2AL	141P134010	CAPACITOR(C)	F50V 0.047 μ F
C 2AM	141P142010	CAPACITOR(C)	B25V 0.01 μ F-K
C 2AN	141P135080	CAPACITOR(C)	F25V 0.1 μ F-Z
C 2AS	181P500010	CAPACITOR(C)	6.3V 22 μ F-M
C 2AT	141P142010	CAPACITOR(C)	B25V 0.01 μ F-K
C 2AU	154P341030	CAPACITOR(C)	CH50V 12pF-J
C 2AV	141P142010	CAPACITOR(C)	B25V 0.01 μ F-K
C 2AW	189P123070	CAPACITOR(C)	16V 10 μ F-M
C 2AX	154P343050	CAPACITOR(C)	CH50V 100pF-J
C 2AY	141P134010	CAPACITOR(C)	F50V 0.047 μ F
C 2AZ	141P134010	CAPACITOR(C)	F50V 0.047 μ F
C 2BA	141P134010	CAPACITOR(C)	F50V 0.047 μ F
C 2BB	141P134010	CAPACITOR(C)	F50V 0.047 μ F
C 2BC	141P142010	CAPACITOR(C)	B25V 0.01 μ F-K
C 2BD	141P142010	CAPACITOR(C)	B25V 0.01 μ F-K
C 2BE	141P142010	CAPACITOR(C)	B25V 0.01 μ F-K
C 2BF	154P342030	CAPACITOR(C)	CH50V 33pF-J
C 2BG	181P510010	CAPACITOR(C)	04W 6.3V 22 μ F-M
C 2BJ	141P134010	CAPACITOR(C)	F50V 0.047 μ F
C 2BK	141P142010	CAPACITOR(C)	B25V 0.01 μ F-K
C 2BL	141P142010	CAPACITOR(C)	B25V 0.01 μ F-K
C 2BM	141P134010	CAPACITOR(C)	F50V 0.047 μ F
C 2BN	141P142010	CAPACITOR(C)	B25V 0.01 μ F-K
C 2BP	141P142010	CAPACITOR(C)	B25V 0.01 μ F-K
C 2BQ	141P142010	CAPACITOR(C)	B25V 0.01 μ F-K
C 2BR	141P134010	CAPACITOR(C)	F50V 0.047 μ F
C 2BS	141P134010	CAPACITOR(C)	F50V 0.047 μ F
C 2BT	181P500010	CAPACITOR(C)	6.3V 22 μ F-M
○C 2BU	189P121080	CAPACITOR(C)	6.3V 47 μ F-M
C 2BV	141P142010	CAPACITOR(C)	B25V 0.01 μ F-K
C 2BW	181P500030	CAPACITOR(C)	04W 6.3V 47 μ F-M
C 2BX	141P142010	CAPACITOR(C)	B25V 0.01 μ F-K
C 2BY	154P341090	CAPACITOR(C)	CH50V 22pF-J
C 2BZ	154P341090	CAPACITOR(C)	CH50V 22pF-J
C 2CA	154P342010	CAPACITOR(C)	CH50V 27pF-J
C 2CB	154P341010	CAPACITOR(C)	CH50V 10pF-C
C 2CC	141P135080	CAPACITOR(C)	F25V 0.1 μ F-Z
C 2CE	154P342010	CAPACITOR(C)	CH50V 27pF-J

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
C 2CG	141P142010	CAPACITOR(C)	B25V 0.01 μ F-K
C 2CH	141P135080	CAPACITOR(C)	F25V 0.1 μ F-Z
C 2CJ	141P142010	CAPACITOR(C)	B25V 0.01 μ F-K
C 2CK	141P142010	CAPACITOR(C)	B25V 0.01 μ F-K
C 2CL	154P342010	CAPACITOR(C)	CH50V 27pF-J
C 2CM	154P341090	CAPACITOR(C)	CH50V 22pF-J
C 2CN	181P500030	CAPACITOR(C)	04W 6.3V 47 μ F-M
C 2CP	141P142010	CAPACITOR(C)	B25V 0.01 μ F-K
C 2CQ	154P342070	CAPACITOR(C)	CH50V 47pF-J
C 2CR	154P343050	CAPACITOR(C)	CH50V 100pF-J
C 2D0	181P502060	CAPACITOR(C)	16V 47 μ F-M
C 2D1	141P143080	CAPACITOR(C)	F50V 0.01 μ F-Z
C 2D2	154P342010	CAPACITOR(C)	CH50V 27pF-J
C 2D4	141P143080	CAPACITOR(C)	F50V 0.01 μ F-Z
C 2D5	141P136030	CAPACITOR(C)	F16V 1 μ F-Z
C 2D6	141P143080	CAPACITOR(C)	F50V 0.01 μ F-Z
C 2D7	141P136030	CAPACITOR(C)	F16V 1 μ F-Z
C 2D8	141P143080	CAPACITOR(C)	F50V 0.01 μ F-Z
C 2D9	141P136030	CAPACITOR(C)	F16V 1 μ F-Z
C 2E0	154P344050	CAPACITOR(C)	CH25V/50V
C 2E1	154P342070	CAPACITOR(C)	CH50V 47pF-J
C 2E2	141P143080	CAPACITOR(C)	F50V 0.01 μ F-Z
C 2E3	181P502060	CAPACITOR(C)	16V 47 μ F-M
C 2E4	141P143080	CAPACITOR(C)	F50V 0.01 μ F-Z
C 2E5	141P143080	CAPACITOR(C)	F50V 0.01 μ F-Z
C 2E6	154P342010	CAPACITOR(C)	CH50V 27pF-J
C 2E7	141P143080	CAPACITOR(C)	F50V 0.01 μ F-Z
C 2EA	154P342030	CAPACITOR(C)	CH50V 33pF-J
C 2EB	141P140090	CAPACITOR(C)	B50V 1000pF-K
C 2EC	141P142010	CAPACITOR(C)	B25V 0.01 μ F-K
C 2ED	154P341030	CAPACITOR(C)	CH50V 12pF-J
C 2EE	154P341030	CAPACITOR(C)	CH50V 12pF-J
C 2EF	141P135080	CAPACITOR(C)	F25V 0.1 μ F-Z
C 2EG	141P142010	CAPACITOR(C)	B25V 0.01 μ F-K
C 2EH	154P353040	CAPACITOR(C)	SL50V 82pF-J
C 2F0	141P143080	CAPACITOR(C)	F50V 0.01 μ F-Z
C 2F1	141P143080	CAPACITOR(C)	F50V 0.01 μ F-Z
C 2F5	141P143080	CAPACITOR(C)	F50V 0.01 μ F-Z
C 2F7	141P136030	CAPACITOR(C)	F16V 1 μ F-Z
C 2F8	141P143080	CAPACITOR(C)	F50V 0.01 μ F-Z
C 2F9	141P143080	CAPACITOR(C)	F50V 0.01 μ F-Z
C 2G0	181P502030	CAPACITOR(C)	16V 10 μ F-M
C 2G1	141P143080	CAPACITOR(C)	F50V 0.01 μ F-Z
C 2G2	141P143080	CAPACITOR(C)	F50V 0.01 μ F-Z
C 2G3	141P143080	CAPACITOR(C)	F50V 0.01 μ F-Z
C 2G4	141P143080	CAPACITOR(C)	F50V 0.01 μ F-Z
C 2G5	141P143080	CAPACITOR(C)	F50V 0.01 μ F-Z
C 2G6	154P352040	CAPACITOR(C)	SL50V 33pF-J
C 2L2	154P351040	CAPACITOR(C)	SL50V 12P-C
C 2L3	154P354040	CAPACITOR(C)	SL50V 220pF-J
C 2L4	154P353040	CAPACITOR(C)	SL50V 82pF-J
C 2M0	141P136030	CAPACITOR(C)	F16V 1 μ F-Z
C 2M1	141P135080	CAPACITOR(C)	F25V 0.1 μ F-Z
C 2P0	181P500040	CAPACITOR(C)	6.3V 100 μ F-M

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
C 2P1	154P343010	CAPACITOR(C)	CH50V 68pF-J
C 2P2	154P343070	CAPACITOR(C)	CH50V 120pF-J
C 2P3	189P121010	CAPACITOR(C)	6.3V 3.3μF-M
C 2P4	189P121010	CAPACITOR(C)	6.3V 3.3μF-M
C 2P5	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 2P7	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 2X1	141P140090	CAPACITOR(C)	B50V 1000pF-K
C 2X2	141P140090	CAPACITOR(C)	B50V 1000pF-K
○C 2X3	181P508010	CAPACITOR(C)	4V 220μF-M
○C 2X4	181P508010	CAPACITOR(C)	4V 220μF-M
C 2X5	154P352060	CAPACITOR(C)	SL50V 39pF-J
C 2001	189P123070	CAPACITOR(C)	16V 10μF-M
C 2002	189P125010	C-TANTALUM(C)	25V
C 2003	154P352020	CAPACITOR(C)	SL50V 27pF-J
C 2004	189P123070	CAPACITOR(C)	16V 10μF-M
C 2005	189P125010	C-TANTALUM(C)	25V
C 2006	181P500010	CAPACITOR(C)	6.3V 22μF-M
C 2007	181P510070	CAPACITOR(C)	04W 10V 10μF-M
C 2009	141P136030	CAPACITOR(C)	F16V 1μF-Z
○C 2021	154P325080	CAPACITOR(C)	SL50V 820pF
C 2022	154P354000	CAPACITOR(C)	SL50V 150pF-J
C 2023	154P355040	CAPACITOR(C)	SL25V 560pF-J
C 2024	154P354000	CAPACITOR(C)	SL50V 150pF-J
C 2026	154P352040	CAPACITOR(C)	SL50V 33pF-J
C 2027	154P352040	CAPACITOR(C)	SL50V 33pF-J
C 2028	154P352040	CAPACITOR(C)	SL50V 33pF-J
C 2029	181P500040	CAPACITOR(C)	6.3V 100μF-M
C 2030	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 2033	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 2101	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 2102	141P143050	CAPACITOR(C)	F50V 1000pF-Z
C 2104	141P143050	CAPACITOR(C)	F50V 1000pF-Z
C 2106	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 2107	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
○C 2108	181P508020	CAPACITOR(C)	04W 50V 0.1μF-M
C 2109	141P142010	CAPACITOR(C)	B25V 0.01μF-K
C 2110	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 2111	154P341050	CAPACITOR(C)	CH50V 15pF-J
C 2112	154P341070	CAPACITOR(C)	CH50V 18pF-J
C 2113	154P342090	CAPACITOR(C)	CH50V 56pF-J
C 2114	154P343010	CAPACITOR(C)	CH50V 68pF-J
C 2115	141P136010	CAPACITOR(C)	F25V 0.47μF-Z
C 2201	181P500040	CAPACITOR(C)	6.3V 100μF-M
C 2210	154P353040	CAPACITOR(C)	SL50V 82pF-J
C 2212	154P351040	CAPACITOR(C)	SL50V 12pF-C
C 2213	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 2214	154P354040	CAPACITOR(C)	SL50V 220pF-J
C 2215	154P352060	CAPACITOR(C)	SL50V 39pF-J
C 2216	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 2230	154P352040	CAPACITOR(C)	SL50V 33pF-J
C 2231	154P351020	CAPACITOR(C)	SL50V 10pF-J
C 2232	154P352000	CAPACITOR(C)	SL50V 22pF-J
C 2233	154P355020	CAPACITOR(C)	SL50V 470pF-J
C 2234	154P352000	CAPACITOR(C)	SL50V 22pF-J

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
C 2235	154P352020	CAPACITOR(C)	SL50V 27pF-J
C 2301	181P500010	CAPACITOR(C)	6.3V 22μF-M
C 2302	181P500010	CAPACITOR(C)	6.3V 22μF-M
C 2303	141P136030	CAPACITOR(C)	F16V 1μF-Z
C 2304	141P136030	CAPACITOR(C)	F16V 1μF-Z
C 2305	141P136030	CAPACITOR(C)	F16V 1μF-Z
C 2306	141P136030	CAPACITOR(C)	F16V 1μF-Z
C 301	181P500080	CAPACITOR(C)	04W 10V 33μF-M
C 302	181P510010	CAPACITOR(C)	04W 6.3V 22μF-M
C 303	181P506010	CAPACITOR(C)	50V 1μF-M
C 304	181P502030	CAPACITOR(C)	16V 10μF-M
C 305	141P136030	CAPACITOR(C)	F16V 1μF-Z
C 308	154P327060	CAPACITOR(C)	CH50V 4700pF-J
C 310	141P140010	CAPACITOR(C)	B50V 220pF-K
C 311	189P125010	C-TANTALUM(C)	25V
C 312	154P355060	CAPACITOR(C)	SL25V 680pF-J
C 313	154P327000	CAPACITOR(C)	SL50V 2700pF-J
C 314	181P500010	CAPACITOR(C)	6.3V 22μF-M
C 316	181P500080	CAPACITOR(C)	04W 10V 33μF-M
C 317	181P502030	CAPACITOR(C)	16V 10μF-M
C 318	154P327060	CAPACITOR(C)	CH50V 4700pF-J
C 319	181P502030	CAPACITOR(C)	16V 10μF-M
○C 320	141P142000	CAPACITOR(C)	B50V 8200pF-K
C 321	141P137080	CAPACITOR(C)	B50V 0.047μF
C 323	189P096020	C-PLASTIC-PP	100V 3300pF-J
C 324	154P354040	CAPACITOR(C)	SL50V 220pF-J
C 325	181P506030	CAPACITOR(C)	04W 50V 3.3μF-M
C 326	189P123010	CAPACITOR(C)	16V 1μF-M
○C 3000	181P516000	CAPACITOR(C)	04W 50V 0.47μF
○C 3001	181P516000	CAPACITOR(C)	04W 50V 0.47μF
C 3002	181P500010	CAPACITOR(C)	6.3V 22μF-M
C 3003	181P506020	CAPACITOR(C)	04W 50V 2.2μF-M
C 3004	181P510070	CAPACITOR(C)	04W 10V 10μF-M
○C 3005	141P141070	CAPACITOR(C)	B50V 4700pF-K
C 3006	141P137040	CAPACITOR(C)	B25V 0.022μF
○C 3007	154P326000	CAPACITOR(C)	SL50V 1000pF
C 3008	189P123070	CAPACITOR(C)	16V 10μF-M
C 3009	189P122030	CAPACITOR(C)	10V 4.7μF-M
C 3011	181P500030	CAPACITOR(C)	04W 6.3V 47μF-M
○C 3013	154P327020	CAPACITOR(C)	SL50V 3300pF
C 3014	154P326020	CAPACITOR(C)	SL50V 1200pF-J
○C 3015	154P326000	CAPACITOR(C)	SL50V 1000pF
○C 3016	154P326000	CAPACITOR(C)	SL50V 1000pF
C 3017	189P122030	CAPACITOR(C)	10V 4.7μF-M
C 3018	181P500040	CAPACITOR(C)	6.3V 100μF-M
C 3019	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 3020	141P142010	CAPACITOR(C)	B25V 0.01μF-K
C 3021	141P142010	CAPACITOR(C)	B25V 0.01μF-K
C 3022	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 3023	181P500040	CAPACITOR(C)	6.3V 100μF-M
○C 3024	141P138030	CAPACITOR(C)	B50V 0.12μF-K
C 3025	141P139030	CAPACITOR(C)	B25V 0.1μF-K
C 3026	189P123010	CAPACITOR(C)	16V 1μF-M
○C 3027	154P326060	CAPACITOR(C)	SL50V 1800pF-J

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
C 3028	141P142010	CAPACITOR(C)	B25V 0.01μF-K
C 3029	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 3030	181P500040	CAPACITOR(C)	6.3V 100μF-M
C 3031	189P122030	CAPACITOR(C)	10V 4.7μF-M
○C 3032	154P326000	CAPACITOR(C)	SL50V 1000pF
○C 3033	154P326000	CAPACITOR(C)	SL50V 1000pF
C 3034	154P326020	CAPACITOR(C)	SL50V 1200pF-J
○C 3035	154P327020	CAPACITOR(C)	SL50V 3300pF
C 3037	181P500030	CAPACITOR(C)	04W 6.3V 47μF-M
C 3038	189P122030	CAPACITOR(C)	10V 4.7μF-M
C 3040	189P123070	CAPACITOR(C)	16V 10μF-M
○C 3041	154P326000	CAPACITOR(C)	SL50V 1000pF
C 3042	141P137040	CAPACITOR(C)	B25V 0.022μF
○C 3043	141P141070	CAPACITOR(C)	B50V 4700pF-K
C 3044	181P510070	CAPACITOR(C)	04W 10V 10μF-M
C 3045	141P136030	CAPACITOR(C)	F16V 1μF-Z
○C 3046	181P516030	CAPACITOR(C)	04W 50V 3.3μF
○C 3047	181P516030	CAPACITOR(C)	04W 50V 3.3μF
C 3048	189P121010	CAPACITOR(C)	6.3V 3.3μF-M
C 3049	181P502030	CAPACITOR(C)	16V 10μF-M
C 3050	181P502030	CAPACITOR(C)	16V 10μF-M
C 3051	181P500030	CAPACITOR(C)	04W 6.3V 47μF-M
C 3052	189P123010	CAPACITOR(C)	16V 1μF-M
C 3055	141P136030	CAPACITOR(C)	F16V 1μF-Z
C 3056	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 3057	141P136030	CAPACITOR(C)	F16V 1μF-Z
C 3058	141P136030	CAPACITOR(C)	F16V 1μF-Z
C 3059	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 3062	181P500030	CAPACITOR(C)	04W 6.3V 47μF-M
C 3064	181P500030	CAPACITOR(C)	04W 6.3V 47μF-M
C 3065	181P506020	CAPACITOR(C)	04W 50V 2.2μF-M
C 3066	181P506020	CAPACITOR(C)	04W 50V 2.2μF-M
C 3067	181P500030	CAPACITOR(C)	04W 6.3V 47μF-M
C 3068	181P500030	CAPACITOR(C)	04W 6.3V 47μF-M
C 3069	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 3070	141P141010	CAPACITOR(C)	B50V 1500pF-K
C 3071	141P141010	CAPACITOR(C)	B50V 1500pF-K
C 3072	141P142010	CAPACITOR(C)	B25V 0.01μF-K
C 3200	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 3201	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 3202	181P500030	CAPACITOR(C)	04W 6.3V 47μF-M
C 3203	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 3204	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 3205	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 3206	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 3207	181P500030	CAPACITOR(C)	04W 6.3V 47μF-M
C 3208	141P136030	CAPACITOR(C)	F16V 1μF-Z
C 3209	154P354080	CAPACITOR(C)	SL50V 330pF-J
C 3210	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 3211	154P354080	CAPACITOR(C)	SL50V 330pF-J
C 3212	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 3213	141P136030	CAPACITOR(C)	F16V 1μF-Z
C 3300	141P140090	CAPACITOR(C)	B50V 1000pF-K
C 3301	141P140090	CAPACITOR(C)	B50V 1000pF-K

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
C 3308	189P126010	C-TANTALUM(C)	35V 0.1μF-M
C 3309	189P126010	C-TANTALUM(C)	35V 0.1μF-M
C 3310	189P120030	C-TANTALUM(C)	4V 10μF-M
C 3311	189P120030	C-TANTALUM(C)	4V 10μF-M
C 3312	141P140080	CAPACITOR(C)	B50V 820pF-K
C 3313	141P140080	CAPACITOR(C)	B50V 820pF-K
C 3314	189P123010	CAPACITOR(C)	16V 1μF-M
C 3315	189P123010	CAPACITOR(C)	16V 1μF-M
C 3316	181P502060	CAPACITOR(C)	16V 47μF-M
C 3317	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 400	181P500030	CAPACITOR(C)	04W 6.3V 47μF-M
C 401	141P139030	CAPACITOR(C)	B25V 0.1μF-K
C 402	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 403	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 404	141P144000	CAPACITOR(C)	F25V 0.033μF-Z
C 405	141P144000	CAPACITOR(C)	F25V 0.033μF-Z
C 406	141P144000	CAPACITOR(C)	F25V 0.033μF-Z
C 407	181P506020	CAPACITOR(C)	04W 50V 2.2μF-M
C 408	181P506020	CAPACITOR(C)	04W 50V 2.2μF-M
C 409	181P506020	CAPACITOR(C)	04W 50V 2.2μF-M
C 410	189P122030	CAPACITOR(C)	10V 4.7μF-M
C 420	181P500010	CAPACITOR(C)	6.3V 22μF-M
C 421	154P343050	CAPACITOR(C)	CH50V 100pF-J
C 422	189P123010	CAPACITOR(C)	16V 1μF-M
C 423	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 424	141P140090	CAPACITOR(C)	B50V 1000pF-K
C 425	181P506020	CAPACITOR(C)	04W 50V 2.2μF-M
C 426	181P500030	CAPACITOR(C)	04W 6.3V 47μF-M
C 427	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 428	154P355040	CAPACITOR(C)	SL25V 560pF-J
C 429	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 430	141P136030	CAPACITOR(C)	F16V 1μF-Z
C 431	181P502030	CAPACITOR(C)	16V 10μF-M
C 432	141P141010	CAPACITOR(C)	B50V 1500pF-K
C 434	141P134010	CAPACITOR(C)	F50V 0.047μF
C 435	141P136030	CAPACITOR(C)	F16V 1μF-Z
C 436	141P140090	CAPACITOR(C)	B50V 1000pF-K
C 450	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 451	181P500030	CAPACITOR(C)	04W 6.3V 47μF-M
C 452	141P142010	CAPACITOR(C)	B25V 0.01μF-K
C 453	181P502030	CAPACITOR(C)	16V 10μF-M
C 454	181P502030	CAPACITOR(C)	16V 10μF-M
C 455	181P502030	CAPACITOR(C)	16V 10μF-M
C 456	141P136000	CAPACITOR(C)	F25V 0.33μF-Z
C 480	189P095010	C-POLYESTER	50V 0.033μF-J
C 481	181P500080	CAPACITOR(C)	04W 10V 33μF-M
C 482	141P142010	CAPACITOR(C)	B25V 0.01μF-K
C 483	141P141030	CAPACITOR(C)	B50V 2200pF-K
C 4A0	141P141080	CAPACITOR(C)	B50V 5600pF-K
C 4A1	141P137090	CAPACITOR(C)	B25V 0.056μF
C 4A2	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 4A3	181P502060	CAPACITOR(C)	16V 47μF-M
C 4A4	181P502060	CAPACITOR(C)	16V 47μF-M
C 4B0	141P140090	CAPACITOR(C)	B50V 1000pF-K
C 4B1	141P140090	CAPACITOR(C)	B50V 1000pF-K

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
C 4B2	141P132030	CAPACITOR(C)	B50V 0.015μF
C 4B3	181P500010	CAPACITOR(C)	6.3V 22μF-M
C 4B4	181P500010	CAPACITOR(C)	6.3V 22μF-M
C 4C0	181P516010	CAPACITOR(C)	04W 50V 1μF
C 4C1	181P502060	CAPACITOR(C)	16V 47μF-M
C 4F0	181P502060	CAPACITOR(C)	16V 47μF-M
C 4F2	141P140090	CAPACITOR(C)	B50V 1000pF-K
C 4S0	141P140090	CAPACITOR(C)	B50V 1000pF-K
C 4S1	141P140090	CAPACITOR(C)	B50V 1000pF-K
C 4S3	141P142010	CAPACITOR(C)	B25V 0.01μF-K
C 4001	181P500030	CAPACITOR(C)	04W 6.3V 47μF-M
C 4002	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 4004	154P341090	CAPACITOR(C)	CH50V 22pF-J
C 4005	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 4006	154P342090	CAPACITOR(C)	CH50V 56pF-J
C 4007	181P500030	CAPACITOR(C)	04W 6.3V 47μF-M
C 4008	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 4009	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 4010	141P144000	CAPACITOR(C)	F25V 0.033μF-Z
C 4011	181P500010	CAPACITOR(C)	6.3V 22μF-M
C 4012	181P500030	CAPACITOR(C)	04W 6.3V 47μF-M
C 4013	141P144000	CAPACITOR(C)	F25V 0.033μF-Z
C 4016	154P343090	CAPACITOR(C)	CH50V 150pF-J
C 5A0	141P137090	CAPACITOR(C)	B25V 0.056μF
C 5A2	141P132030	CAPACITOR(C)	B50V 0.015μF
C 5A5	141P140090	CAPACITOR(C)	B50V 1000pF-K
C 5A6	154P324040	CAPACITOR(C)	SL50V 220pF-J
C 5AA	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 5AB	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 5AC	141P136030	CAPACITOR(C)	F16V 1μF-Z
C 5AP	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 5AQ	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 5B0	154P341070	CAPACITOR(C)	CH50V 18pF-J
C 5B1	154P341070	CAPACITOR(C)	CH50V 18pF-J
C 5B2	181P500030	CAPACITOR(C)	04W 6.3V 47μF-M
C 5B3	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 5B5	141P140030	CAPACITOR(C)	B50V 330pF-K
○C 5BA	154P335090	CAPACITOR(C)	CH50V 1000pF-J
C 5BB	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 5BC	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 5BD	141P140090	CAPACITOR(C)	B50V 1000pF-K
C 5DA	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 5DB	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 5EB	141P136030	CAPACITOR(C)	F16V 1μF-Z
C 5EC	141P136030	CAPACITOR(C)	F16V 1μF-Z
○C 5FA	141P135010	CAPACITOR(C)	F25V 0.33μF-Z
C 5FB	181P502030	CAPACITOR(C)	16V 10μF-M
C 5FC	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 5FD	141P136030	CAPACITOR(C)	F16V 1μF-Z
C 5FE	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 5GA	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 5GB	181P500010	CAPACITOR(C)	6.3V 22μF-M
C 5GC	141P134010	CAPACITOR(C)	F50V 0.047μF
C 5GD	141P140090	CAPACITOR(C)	B50V 1000pF-K
C 5GE	141P136010	CAPACITOR(C)	F25V 0.47μF-Z
C 5GF	181P500080	CAPACITOR(C)	04W 10V 33μF-M
C 5KA	181P500030	CAPACITOR(C)	04W 6.3V 47μF-M
C 5KB	181P500030	CAPACITOR(C)	04W 6.3V 47μF-M
C 5KC	181P502060	CAPACITOR(C)	16V 47μF-M
C 5LA	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 5MA	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 5MB	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
○C 5ZA	141P135010	CAPACITOR(C)	F25V 0.33μF-Z
C 5ZB	181P502030	CAPACITOR(C)	16V 10μF-M
C 5ZC	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 5ZD	141P136030	CAPACITOR(C)	F16V 1μF-Z
C 5ZE	141P136030	CAPACITOR(C)	F16V 1μF-Z
C 5ZF	154P342070	CAPACITOR(C)	CH50V 47pF-J
C 601	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 602	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 603	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 604	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 605	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 606	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 607	181P500040	CAPACITOR(C)	6.3V 100μF-M
C 608	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 609	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 610	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 611	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 612	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 614	154P354000	CAPACITOR(C)	SL50V 150pF-J
C 615	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 616	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 617	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 618	181P500010	CAPACITOR(C)	6.3V 22μF-M
C 619	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 620	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 621	154P355020	CAPACITOR(C)	SL50V 470pF-J
○C 622	189P126020	CAPACITOR(C)	35V 0.15μF-M
C 624	189P123070	CAPACITOR(C)	16V 10μF-M
C 625	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
○C 626	154P335010	CAPACITOR(C)	CH50V 470pF-J
C 627	189P122010	CAPACITOR(C)	10V 2.2μF-M
C 628	189P122030	CAPACITOR(C)	10V 4.7μF-M
C 631	189P123070	CAPACITOR(C)	16V 10μF-M
C 632	154P340060	CAPACITOR(C)	CH50V 5pF-C
○C 633	154P335090	CAPACITOR(C)	CH50V 1000pF-J
C 634	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 635	154P343050	CAPACITOR(C)	CH50V 100pF-J
C 636	181P500040	CAPACITOR(C)	6.3V 100μF-M
C 637	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 638	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 639	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 640	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 642	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 643	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 644	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 645	141P143080	CAPACITOR(C)	F50V 0.01μF-Z

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
C 647	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 648	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 649	181P500030	CAPACITOR(C)	04W 6.3V 47μF-M
C 650	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 651	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 652	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 653	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 654	154P343050	CAPACITOR(C)	CH50V 100pF-J
C 655	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 656	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 657	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
○C 658	154P335090	CAPACITOR(C)	CH50V 1000pF-J
C 659	189P122030	CAPACITOR(C)	10V 4.7μF-M
○C 660	154P340090	CAPACITOR(C)	CH50V 8pF-C
C 661	141P139030	CAPACITOR(C)	B25V 0.1μF-K
C 662	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 663	181P500010	CAPACITOR(C)	6.3V 22μF-M
C 664	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 666	154P343030	CAPACITOR(C)	CH50V 82pF-J
C 667	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 7AJ	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 7AK	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 7AL	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 7AM	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 7AW	181P500010	CAPACITOR(C)	6.3V 22μF-M
C 7BC	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 7BH	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 7BJ	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 7BT	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 7BU	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 7BV	154P342070	CAPACITOR(C)	CH50V 47pF-J
C 7BX	154P342070	CAPACITOR(C)	CH50V 47pF-J
C 7BY	154P342070	CAPACITOR(C)	CH50V 47pF-J
○C 7CA	141P134020	CAPACITOR(C)	F50V 0.1μF-Z
C 7CG	181P506030	CAPACITOR(C)	04W 50V 3.3μF-M
C 7CS	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 7CT	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 7CU	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 7CX	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 7CY	189P123070	CAPACITOR(C)	16V 10μF-M
C 7DA	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 7DB	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 7DC	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 7DD	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 7DE	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 7DF	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 7DG	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 7DH	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 7DJ	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 7DU	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 7DV	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 7EA	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 7EF	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 7FM	141P135080	CAPACITOR(C)	F25V 0.1μF-Z

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
C 7FN	181P507080	CAPACITOR(C)	4V 33μF-M
C 7HF	141P136030	CAPACITOR(C)	F16V 1μF-Z
C 7PA	181P500030	CAPACITOR(C)	04W 6.3V 47μF-M
C 7PB	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 7PC	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 7PD	181P500030	CAPACITOR(C)	04W 6.3V 47μF-M
C 7RA	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
○C 7RB	141P135010	CAPACITOR(C)	F25V 0.33μF-Z
C 7WB	141P142010	CAPACITOR(C)	B25V 0.01μF-K
C 7WC	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 7WD	189P123070	CAPACITOR(C)	16V 10μF-M
C 7WE	189P123070	CAPACITOR(C)	16V 10μF-M
C 7WF	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 8A1	141P136030	CAPACITOR(C)	F16V 1μF-Z
C 8A2	181P502030	CAPACITOR(C)	16V 10μF-M
C 8A3	154P343050	CAPACITOR(C)	CH50V 100pF-J
C 8A4	154P343050	CAPACITOR(C)	CH50V 100pF-J
C 8A5	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 8000	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 8005	154P342010	CAPACITOR(C)	CH50V 27pF-J
C 8008	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 8013	181P500010	CAPACITOR(C)	6.3V 22μF-M
C 8015	141P134010	CAPACITOR(C)	F50V 0.047μF
C 8016	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 8700	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 8701	181P500030	CAPACITOR(C)	04W 6.3V 47μF-M
C 8702	181P502030	CAPACITOR(C)	16V 10μF-M
C 8703	154P342030	CAPACITOR(C)	CH50V 33pF-J
C 8704	154P342030	CAPACITOR(C)	CH50V 33pF-J
C 8705	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 8706	181P506040	CAPACITOR(C)	04W 50V 4.7μF
C 8707	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 8708	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 8709	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 8710	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 8711	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 8712	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 8713	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 8714	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 8715	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 8720	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 900	181P502060	CAPACITOR(C)	16V 47μF-M
C 904	141P140050	CAPACITOR(C)	B50V 470pF-K
C 905	154P343030	CAPACITOR(C)	CH50V 82pF-J
C 906	154P355040	CAPACITOR(C)	SL25V 560pF-J
C 907	141P136030	CAPACITOR(C)	F16V 1μF-Z
C 911	141P137040	CAPACITOR(C)	B25V 0.022μF
C 912	141P137040	CAPACITOR(C)	B25V 0.022μF
○C 920	141P140020	CAPACITOR(C)	B50V 270pF-K
C 924	141P136030	CAPACITOR(C)	F16V 1μF-Z
C 925	141P136030	CAPACITOR(C)	F16V 1μF-Z
C 926	141P136030	CAPACITOR(C)	F16V 1μF-Z
C 927	141P131080	CAPACITOR(C)	B50V 5600pF-K
C 929	141P136030	CAPACITOR(C)	F16V 1μF-Z

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
C 930	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 931	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 933	181P500080	CAPACITOR(C)	04W 10V 33μF-M
C 950	141P132090	CAPACITOR(C)	B50V 0.047μF
○C 951	141P131000	CAPACITOR(C)	B50V 1200pF
C 960	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
C 962	181P503090	CAPACITOR(C)	25V 33μF-M
C 963	181P503090	CAPACITOR(C)	25V 33μF-M
C 965	154P343070	CAPACITOR(C)	CH50V 120pF-J
C 967	181P502040	CAPACITOR(C)	04W 16V 22μF-M
C 968	181P502040	CAPACITOR(C)	04W 16V 22μF-M
C 980	181P502040	CAPACITOR(C)	04W 16V 22μF-M
C 981	181P500040	CAPACITOR(C)	6.3V 100μF-M
○VC0SA	202P220010	CAPACITOR(C)	3pF-10pF
○VC2EA	202P220010	CAPACITOR(C)	3pF-10pF
VC4001	202P221010	TRIMMER CAPACITOR(C)	4pF-25pF
VC601	202P220030	C-TANTALUM(C)	7pF-30pF
VC602	202P220020	TRIMMER CAPACITOR(C)	5pF-20pF 4KA
○VC8000	202P114040	TRIMMER CAPACITOR	10pF-40pF

SWITCHES

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
S 3300	431C075030	SLIDE SWITCH	WIND NOISE FILTER
○S 5AA	432P091010	KEY BOARD SWITCH	FADE
○S 8A2	432P088010	KEY BOARD SWITCH	FOCUS AREA
○S 8A3	432P088010	KEY BOARD SWITCH	DATE/TIME
○S 8A4	432P088010	KEY BOARD SWITCH	IRIS(+)
○S 8A5	432P088010	KEY BOARD SWITCH	FOCUS
○S 8A6	432P088010	KEY BOARD SWITCH	SHUTTER SPEED
○S 8A7	432P088010	KEY BOARD SWITCH	SELF TIMER
○S 8A8	432P088010	KEY BOARD SWITCH	IRIS(-)
○S 8A9	432P088010	KEY BOARD SWITCH	WHITE BALANCE
S 8C1	431C074010	SLIDE SWITCH	FULL AUTO
S 8C2	431C074010	SLIDE SWITCH	REC LEVEL(AUTO/MANUAL)
SW501	432P090010	KEY BOARD SWITCH	START/STOP

MISCELLANEOUS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
F 7WA	266P928010	PROTECTOR IC	ICP-F20
J 2F0	451C112020	JACK	8P
○J 3300	451C122010	JACK	
○J 3301	451C123010	JACK	
J 900	451C099020	POWER JACK	
○TP 22	299P136010	TP TERMINAL	2125
○TP 29	299P136010	TP TERMINAL	2125
○TP 2A	299P136010	TP TERMINAL	2125
○TP 2B	299P136010	TP TERMINAL	2125
○TP 2E	299P136010	TP TERMINAL	2125
○TP 2L	299P136010	TP TERMINAL	2125
○TP 2M	299P136010	TP TERMINAL	2125
○TP 2S	299P136010	TP TERMINAL	2125
○TP 3F	299P136010	TP TERMINAL	2125
○TP 3Z	299P136010	TP TERMINAL	2125
○TP 4N	299P136010	TP TERMINAL	2125
○TP 6A	299P136010	TP TERMINAL	2125
○TP 6B	299P136010	TP TERMINAL	2125
○TP 6C	299P136010	TP TERMINAL	2125
○TP 6G	299P136010	TP TERMINAL	2125
○TP 6J	299P136010	TP TERMINAL	2125
○TP 6L	299P136010	TP TERMINAL	2125
○TP 6X	299P136010	TP TERMINAL	2125
○X 0SA	285P128010	CRYSTAL RESONATOR	
○X 2EA	285P129010	CRYSTAL RESONATOR	
X 5A0	285P102010	CRYSTAL RESONATOR	
○X 601	285P140010	CRYSTAL RESONATOR	
○Z 8A1	289P022020	LCD	
Z 900	266P928010	PROTECTOR IC	ICP-F20
Z 901	266P928040	PROTECTOR IC	ICP-F25

PRINTED CIRCUIT BOARD ASSY'S

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
○	928C643001	AE PCB ASSY	
○	928C644001	CM PCB ASSY	
○	928C603002	HA PCB ASSY	
○	928C605003	LCD PCB ASSY	
○	928B902003	MAIN PCB ASSY	
○	928B759040	MDA PCB ASSY	
○	928C607002	MIC-AMP PCB ASSY	
○	928C606003	OPE PCB ASSY	
○	928C642001	PC PCB ASSY	
○	928C641001	SD PCB ASSY	
	928C527010	SENS PCB ASSY	
○	928B998001	SIGNAL PCB ASSY	
○	928C608001	TRIGGER PCB ASSY	
○	928C613002	WB PCB ASSY	

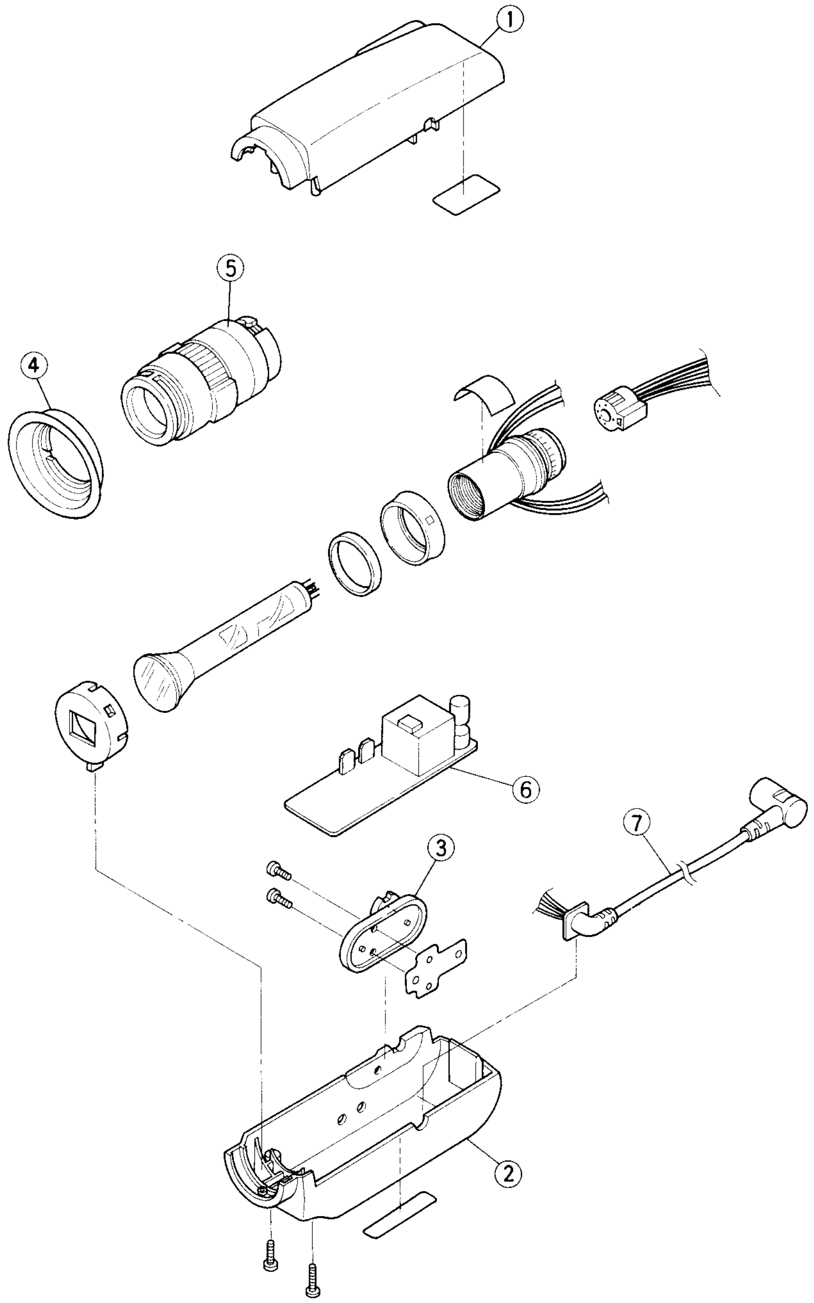
○ : NEW PARTS

AC POWER ADAPTER PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
○	242D390010	AC POWER CODE	[E]
○	242D390020	AC POWER CODE	[B]
○	242D390030	AC POWER CODE	[A]
○	700D026050	TOP CASE	
○	700D026060	BOTTM CASE	
○	703D092020	LAMP COVER	
○IC1	266D113010	IC	UPC1094G-T1
○IC2	266D113020	IC	BA10358F
○IC3	266D113030	IC	SI-M03
○Q1	260D222010	TRANSISTOR	2SC4166P
○Q2	260D222020	TRANSISTOR	2SK791
○Q3	260D222030	TRANSISTOR	2SC2812-L7-TA
○Q4	260D222040	TRANSISTOR	2SC4146-TA
○Q6	260D222050	TRANSISTOR	2SB1205-T
○Q7	260D222060	TRANSISTOR	2SC4066-TA
○Q10	260D222070	TRANSISTOR	2SA1341-HL
○D1	264D140050	DIODE	DS-462
○D2	264D140060	DIODE	ERA-22-10
○D3	264D140070	DIODE	LFB01-CT1
○D4	264D140080	DIODE	SB50-09J
○D7	264D140090	DIODE	ERC81-004
○LED1	264D141010	DIODE	SLP-245B-51
○LED2	264D141020	DIODE	SLP-145B-51
○ZD1	264D140010	DIODE	GZS12Y-BT
○ZD2	264D140020	DIODE	GZA22Y-BT
○ZD3	264D140030	DIODE	DZD24Y-TA
○ZD4	264D140040	DIODE	DZD6, 8X-TA
○DB	264D141030	DIODE	S1WB60
○PC	268D015010	PHOTO COPLER	PC111
○TF	283D086010	FUSE	250V 1A 133°C
○F	283D086020	FUSE	BET 250V T1A
○T	350D041040	TRANS	NC-M03
○VR1	129D169010	VR-SEMIFIXED	2. 2kΩ

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION

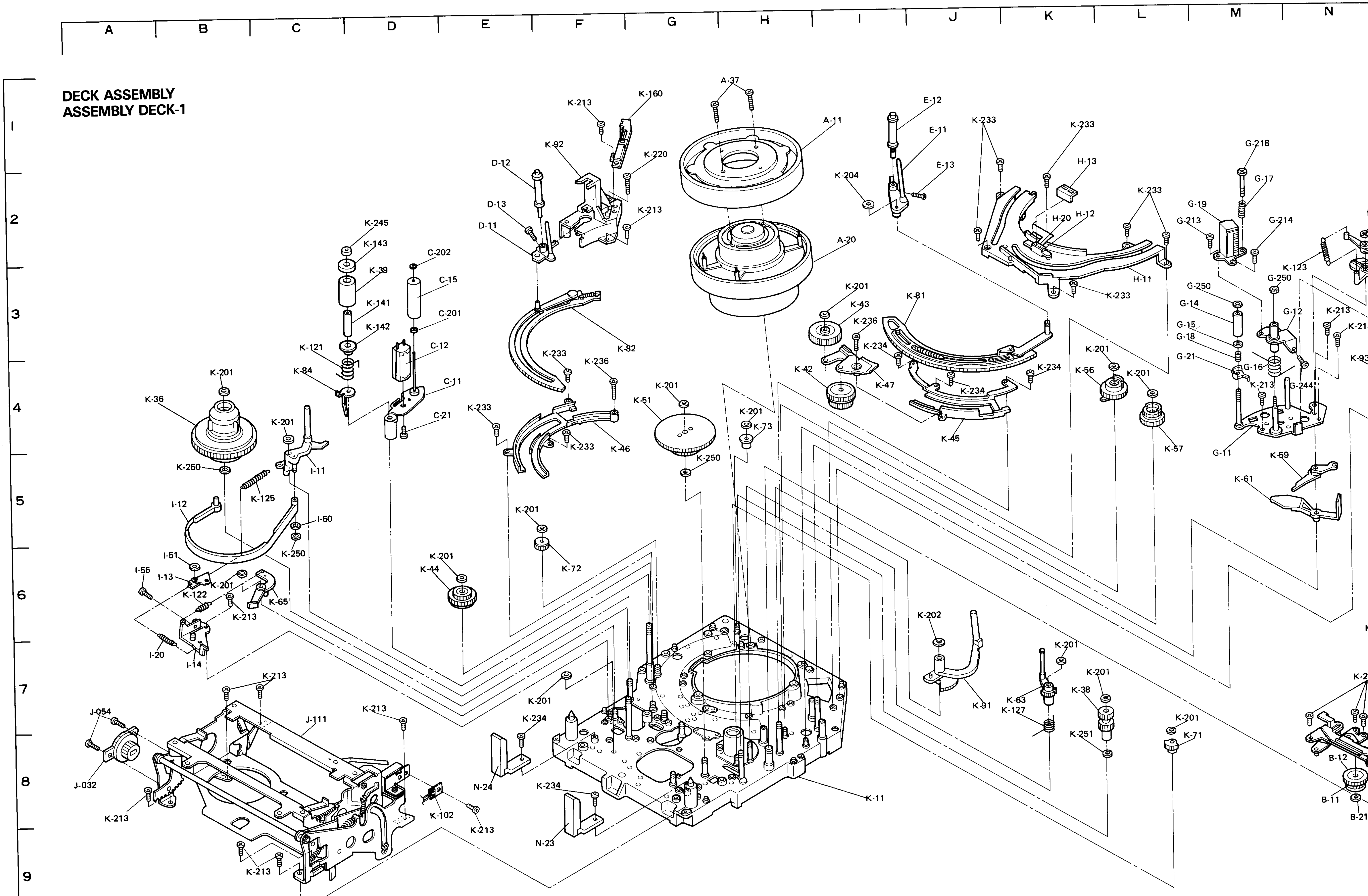
4. EVF Unit Parts



○ : NEW PARTS

	ITEM NO.	PARTS NO.	PARTS NAME	DESCRIPTION
○	1	701D073030	TOP COVER	
○	2	701D073040	BOTTM COVER	
	3	621D683010	SHUE	
○	4	765D039030	EYE CAP	
○	5	409D009060	LENS ASSY	
○	6	928D041010	PCB EVF	
○	7	242D368070	VF CABLE	

DECK ASSEMBLY
ASSEMBLY DECK-1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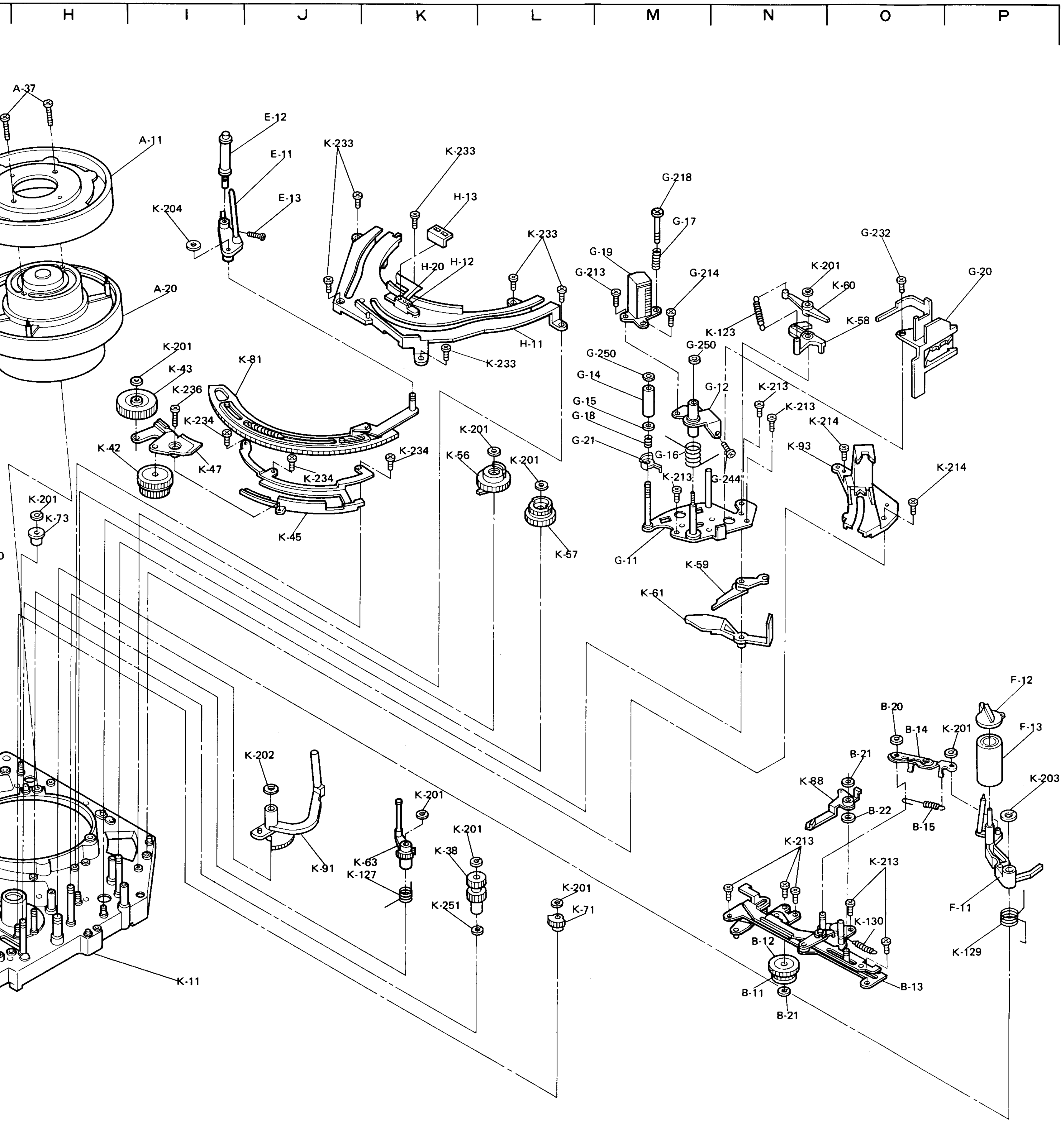
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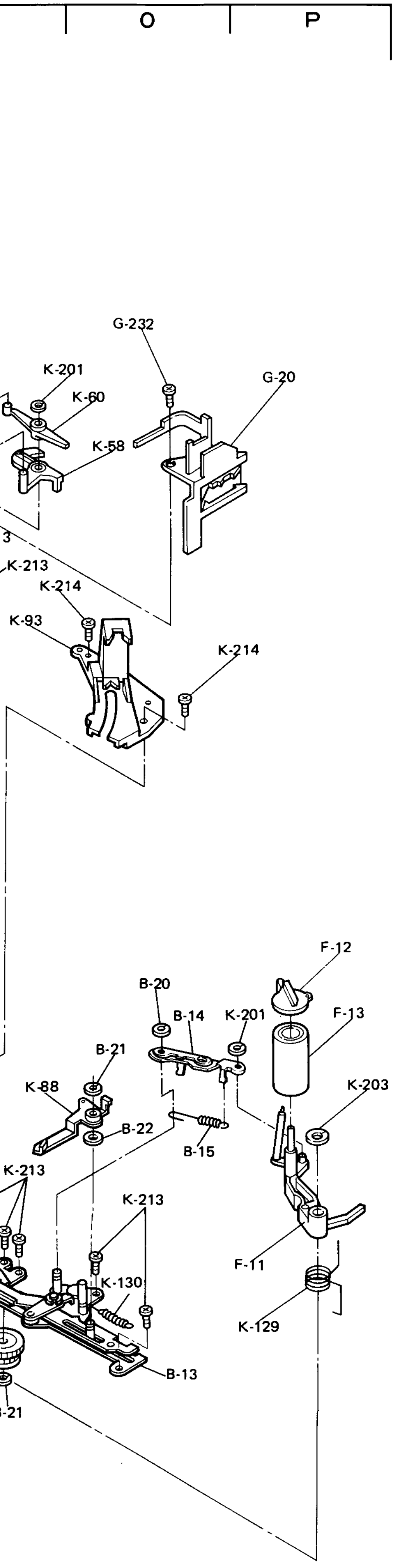
* Settelled Service Parts

ITEM	PARTS No.	*	ADDRESS		PARTS NAME	DESCRIPTION	Qt.
	948B221040	○			ASSY-DRUM	INCLUDE A-11～A-38	01
A-11	928B739060	○	I-1		ASSY-UPPER-DRUM		01
A-20	288P092010	○	I-2		MOTOR-DRUM	M 571	01
A-37	669D340020		G-1	H-1	SCREW-SEMS	M2×0.4 L=5	02
	948C231020				ASSY-CAM-PLATE	INCLUDE B-11～B-22	01
B-11	621D565010		N-8		CAM-LOAD-A		01
B-12	621D561010		N-8		GEAR-LA4		01
B-13	592C805010		0-8		HOLDER-C-SLIDE		01
B-14	592C897010		0-6		ROD-PINCH		01
B-15	572D336010		0-7		SPRING-P		01
B-20	552C009030	○	0-6		CUT-WASHER	1.2×3.5-0.25	01
B-21	552C007010	○	0-7	N-8	CUT-WASHER		01
	928D034010	○			ASSY-ARM-FE	INCLUDE C-11～C-202	01
C-11	641C973010		D-4		ARM-FE-A		01
C-12	460P074020	○	D-4		HEAD-FE	T 571	01
C-15	631D231010	○	D-3		ROLLER-IMP-A		01
C-21	669D207010		D-4		SCREW-S-S	M2×0.4-2.2	01
C-201	552C001010		D-3		WASHER-THRUST	1.6×T0.25	01
C-202	552C009030		D-3		CUT-WASHER	1.2×3.5-0.25	01
	948D021010	○			ASSY-TAPE-GUIDE-SP	INCLUDE D-11～D-13	01
D-11	635B064010	○	F-2		TAPE-GUIDE-SP		01
D-12	522B036010	○	F-2		GUIDE-ROLLER		01
D-13	669D334010		E-2		SCREW	M1.5×0.25	01
	948D022010	○			ASSY-TAPE-GUIDE-TU	INCLUDE E-11～E-13	01
E-11	635B065010	○	I-2		TAPE-GUIDE-TU		01
E-12	522B029010	○	I-1		GUIDE-ROLLER		01
E-13	669D334010		J-2		SCREW	M1.2×0.25	01
	948C232010	○			ASSY-ARM-PINCH	INCLUDE F-11～F-13	01
F-11	635B066010	○	P-7		ARM-PINCH		01
F-12	621D643010		P-6		CAP-PINCH		01
F-13	522C080010	○	P-6		PINCH-ROLLER		01
	928B747020	○			ASSY-PLATE-AC	INCLUDE G-11～G-250	01
G-11	591B589010		M-4		BASE-AC-MAIN-A		01
G-12	592C797010		M-3		ARM-AC		01
G-14	631D288010		M-4		GUIDE-POLE-N		01
G-15	631D176010		M-4		FLANGE-GP-L		01
G-16	572D347010		M-4		SPRING-ARM-AC		01
G-17	572D382010		M-2		SPRING-AC		01
G-18	572D429010		M-4		SPRING-GP2		01
G-19	460P073020	○	M-2		HEAD-AC	T 572	01
G-20	641C887010		0-3		HOLDER-LEAD-AC		01
G-21	621D644010		M-4		GUIDE-FLANGE-GP		01
G-213	669D277030		M-3		SCREW	M1.7×0.35×3	01
G-214	669D335010		M-3		SCREW	M1.7×0.35-4	01
G-218	669D344010		M-2		SCREW-FLANGE	M1.7×0.35-7.2	01
G-232	669D315020		0-2		SCREW	M1.7×0.35-2	01
G-244	669D277050		N-3		SCREW	M1.7×0.35×4	01
G-250	674D093010		M-3	M-3	NUT-S	M2×0.4	02
	928C525010	○			ASSY-GUIDE-SLIDER	INCLUDE H-11～H-20	01
H-11	641B337010		L-3		GUIDE-SLIDER-A		01
H-12	641C834010		K-2		HOLDER-LED		01
H-13	641C834020		K-2		HOLDER-LED		01
H-20	264P526010		K-2		DIODE-LE	D571(LN-57)	01

* Settelled Service Parts

ITEM	PARTS No.	*	ADDRESS	
	948C233010	○		
I-11	641B340010		C-5	
I-12	641B352010		B-5	
I-13	621D570010		B-6	
I-14	592C801010		B-7	
I-20	572D383010		A-7	
I-50	552C009010	○	C-5	
I-51	552C007010	○	B-6	
I-55	669D381010		A-6	
J-111	591B595010	○	C-7	
J-032	641C721010		A-7	
J-054	(054)		A-7	A-
K-11	948B219010		I-8	
K-36	522B027020	○	B-4	
K-38	641C868010		K-7	
K-39	621D393010	○	D-3	
K-42	621D562010		I-4	
K-43	621D563010		I-3	
K-44	621D564010		E-6	
K-45	641C855010		J-4	
K-46	641C856010		F-4	
K-47	621D584010		I-4	
K-51	522B043010	○	G-4	
K-56	641C836010		L-4	
K-57	641C837010		L-4	
K-58	641C838010		N-3	
K-59	641C839010		N-5	
K-60	641C840010		N-3	
K-61	641C841010		N-5	
K-63	635C088010		K-7	
K-65	641C845010		C-6	
K-71	641C846010		L-8	
K-72	621D566010		F-6	
K-73	621D580010		H-4	
K-81	591B578010		J-4	
K-82	591B579010		F-3	
K-84	596D118010		C-4	
K-88	592B984010		0-7	
K-91	635B067010	○	J-7	
K-92	635B062010	○	F-2	
K-93	635B063010	○	0-4	
K-102	299P115020	○	D-8	
K-121	572D438010		C-4	
K-122	572D335010		B-6	
K-123	572D346010		N-3	
K-125	572D349010		C-5	
K-127	572D351010		K-8	
K-129	570C054010		P-8	
K-130	572D440010		0-8	
K-141	631D108010		D-3	
K-142	631D178010		D-3	
K-143	631D179010		D-3	
K-160	299C023010	○	G-1	
K-201	552C007010	○	B-4	C-
			E-6	F-
			G-4	I-
			L-4	L-
			N-2	P-
			L-8	K-
			K-7	F-
			H-4	B-



* Settelled Service Parts

ITEM	PARTS No.	*	ADDRESS		PARTS NAME	DESCRIPTION	Qt.
	948B221040	○			ASSY-DRUM	INCLUDE A-11～A-38	01
A-11	928B739060	○	I-1		ASSY-UPPER-DRUM		01
A-20	288P092010	○	I-2		MOTOR-DRUM	M 571	01
A-37	669D340020		G-1	H-1	SCREW-SEMS	M2×0. 4 L=5	02
	948C231020				ASSY-CAM-PLATE	INCLUDE B-11～B-22	01
B-11	621D565010		N-8		CAM-LOAD-A		01
B-12	621D561010		N-8		GEAR-LA4		01
B-13	592C805010		0-8		HOLDER-C-SLIDE		01
B-14	592C897010		0-6		ROD-PINCH		01
B-15	572D336010		0-7		SPRING-P		01
B-20	552C009030	○	0-6		CUT-WASHER	1. 2×3. 5-0. 25	01
B-21	552C007010	○	0-7	N-8	CUT-WASHER		01
	928D034010	○			ASSY-ARM-FE	INCLUDE C-11～C-202	01
C-11	641C973010		D-4		ARM-FE-A		01
C-12	460P074020	○	D-4		HEAD-FE	T 571	01
C-15	631D231010	○	D-3		ROLLER-IMP-A		01
C-21	669D207010		D-4		SCREW-S-S	M2×0. 4-2. 2	01
C-201	552C001010		D-3		WASHER-THRUST	1. 6×T0. 25	01
C-202	552C009030		D-3		CUT-WASHER	1. 2×3. 5-0. 25	01
	948D021010	○			ASSY-TAPE-GUIDE-SP	INCLUDE D-11～D-13	01
D-11	635B064010	○	F-2		TAPE-GUIDE-SP		01
D-12	522B036010	○	F-2		GUIDE-ROLLER		01
D-13	669D334010		E-2		SCREW	M1. 5×0. 25	01
	948D022010	○			ASSY-TAPE-GUIDE-TU	INCLUDE E-11～E-13	01
E-11	635B065010	○	I-2		TAPE-GUIDE-TU		01
E-12	522B029010	○	I-1		GUIDE-ROLLER		01
E-13	669D334010		J-2		SCREW	M1. 2×0. 25	01
	948C232010	○			ASSY-ARM-PINCH	INCLUDE F-11～F-13	01
F-11	635B066010	○	P-7		ARM-PINCH		01
F-12	621D643010		P-6		CAP-PINCH		01
F-13	522C080010	○	P-6		PINCH-ROLLER		01
	928B747020	○			ASSY-PLATE-AC	INCLUDE G-11～G-250	01
G-11	591B589010		M-4		BASE-AC-MAIN-A		01
G-12	592C797010		M-3		ARM-AC		01
G-14	631D288010		M-4		GUIDE-POLE-N		01
G-15	631D176010		M-4		FLANGE-GP-L		01
G-16	572D347010		M-4		SPRING-ARM-AC		01
G-17	572D382010		M-2		SPRING-AC		01
G-18	572D429010		M-4		SPRING-GP2		01
G-19	460P073020	○	M-2		HEAD-AC	T 572	01
G-20	641C887010		0-3		HOLDER-LEAD-AC		01
G-21	621D644010		M-4		GUIDE-FLANGE-GP		01
G-213	669D277030		M-3		SCREW	M1. 7×0. 35×3	01
G-214	669D335010		M-3		SCREW	M1. 7×0. 35-4	01
G-218	669D344010		M-2		SCREW-FLANGE	M1. 7×0. 35-7. 2	01
G-232	669D315020		0-2		SCREW	M1. 7×0. 35-2	01
G-244	669D277050		N-3		SCREW	M1. 7×0. 35×4	01
G-250	674D093010		M-3	M-3	NUT-S	M2×0. 4	02
	928C525010	○			ASSY-GUIDE-SLIDER	INCLUDE H-11～H-20	01
H-11	641B337010		L-3		GUIDE-SLIDER-A		01
H-12	641C834010		K-2		HOLDER-LED		01
H-13	641C834020		K-2		HOLDER-LED		01
H-20	264P526010		K-2		DIODE-LE	D571(LN-57)	01

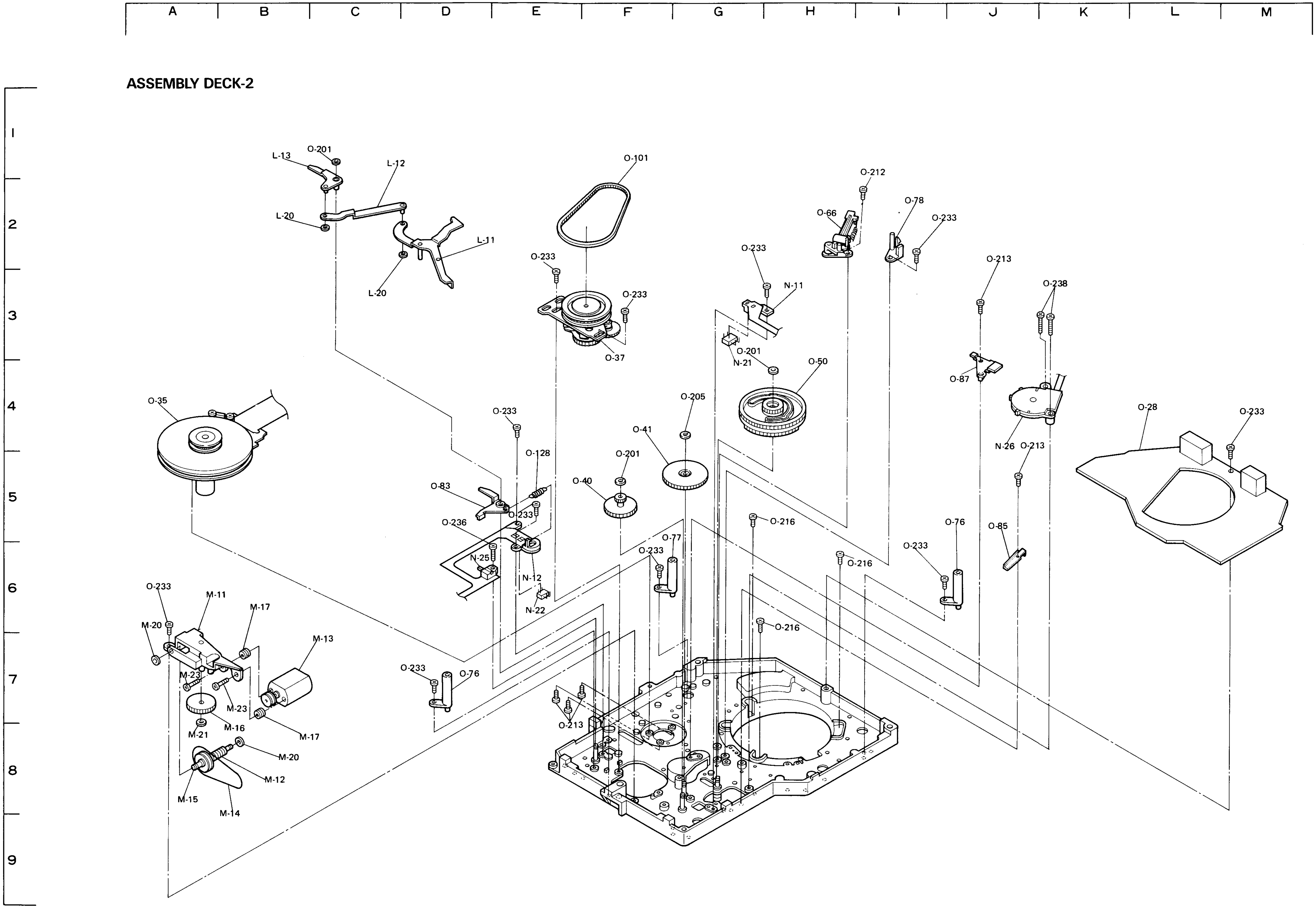
* Settelled Service Parts

ITEM	PARTS No.	*	ADDRESS		PARTS NAME	DESCRIPTION	Qt.
	948C233010	○			ASSY-ARM-TENS	INCLUDE I-11～I-55	01
I-11	641B340010		C-5		ARM-TENSION		01
I-12	641B352010		B-5		BELT-TENS-A		01
I-13	621D570010		B-6		HOLDER-TENS-2A		01
I-14	592C801010		B-7		HOLDER-TENS-A		01
I-20	572D383010		A-7		SPRING-H-TENS		01
I-50	552C009010	○	C-5		CUT-WASHER	0. 8×2. 0-0. 25	01
I-51	552C007010	○	B-6		CUT-WASHER	1. 6	01
I-55	669D381010		A-6		SCREW	M1. 7×0. 35×6	01
J-111	591B595010	○	C-7		UNIT-C-HOU-A	INCLUDE J-032～J-054	01
J-032	641C721010		A-7		DAMPER-HOU		01
J-054	(054)		A-7	A-8	SCREW	M1. 7-2	02
K-11	948B219010		I-8		ASSY-PLATE-MAIN		01
K-36	522B027020	○	B-4		REEL-DISK		01
K-38	641C868010		K-7		GEAR-TU1-A		01
K-39	621D393010	○	D-3		ROLLER-IMP		01
K-42	621D562010		I-4		GEAR-LA5		01
K-43	621D563010		I-3		GEAR-LA6		01
K-44	621D564010		E-6		GEAR-LA7		01
K-45	641C855010		J-4		HOLDER-RA		01
K-46	641C856010		F-4		HOLDER-RB		01
K-47	621D584010		I-4		HOLDER-RC		01
K-51	522B043010	○	G-4		GEAR-REEL-B		01
K-56	641C836010		L-4		CAM-GEAR-SL		01
K-57	641C837010		L-4		CAM-GEAR-SS		01
K-58	641C838010		N-3		ARM-SET-SU		01
K-59	641C839010		N-5		ARM-SET-SL		01
K-60	641C840010		N-3		ARM-SET-LU		01
K-61	641C841010		N-5		ARM-SET-LL		01
K-63	635C088010		K-7		ARM-TU-G		01
K-65	641C845010		C-6		BRAKE-S		01
K-71	641C846010		L-8		GEAR-TU-G		01
K-72	621D566010		F-6		GEAR-RING		01
K-73	621D580010		H-4		ROLLER-RING		01
K-81	591B578010		J-4		UNIT-RING-SA		01
K-82	591B579010		F-3		UNIT-RING-TA		01
K-84	596D118010		C-4		WASHER-IMP		01
K-88	592B984010		0-7		BRAKE-TU		01
K-91	635B067010	○	J-7		ARM-SLANT		01
K-92	635B062010	○	F-2		STOPPER-TG-SP		01
K-93	635B063010	○	0-4		STOPPER-TG-TU		01
K-102	299P115020	○	D-8		SENSOR-H	Z 571	01
K-121	572D438010		C-4		SPRING-IMP		01
K-122	572D335010		B-6		SPRING-TENS		01
K-123	572D346010		N-3		SPRING-AS		01
K-125	572D349010		C-5		SPRING-S		01
K-127	572D351010		K-8		SPRING-RP		01
K-129	570C054010		P-8		SPRING-PINCH		01
K-130	572D440010		0-8		SPRING-RS2		01
K-141	631D108010		D-3		SLEEVE-IMP		01
K-142	631D178010		D-3		FLANGE-IMP-LA		01
K-143	631D179010		D-3		FLANGE-IMP-U		01
K-160	299C023010	○	G-1		BRUSH		01
K-201	552C007010	○	B-4	C-4	CUT-WASHER	1. 6	16
			E-6	F-5			
			G-4	I-3			
			L-4	L-4			
			N-2	P-6			
			L-8	K-7			
			K-7	F-7			
			H-4	B-4			

* Settelled Service Parts

ITEM	PARTS No.	*	ADDRESS		PARTS NAME	DESCRIPTION	Qt.
K-202	552C007020	○	J-7		CUT-WASHER	2. 0	01
K-203	552C007050	○	P-7		CUT-WASHER	2. 6	01
K-204	552C009030	○	I-2		CUT-WASHER	1. 2×3. 5-0. 25	01
K-212	669D227020		F-5		SCREW	M1. 7×0. 35×2	01
K-213	669D277030		A-8	B-7	SCREW	M1. 7×0. 35×3	18
			B-7	B-9			
			C-9	D-7			
			N-8	N-8			
			N-8	0-8			
			M-4	N-4			
			N-3	G-2			
			F-1	B-6			
			0-8	E-8			
K-214	669D277050		0-4	0-4	SCREW	M1. 7×0. 35×4	02
K-220	669D277010		G-2		SCREW	M1. 7×0. 35×10	01
K-233	669D315030		E-4	F-4	SCREW	M1. 7×0. 35-3	09
			F-4	J-2			
			J-2	K-2			
			L-2	L-2			
			K-3				
K-234	669D315050		I-4	J-4	SCREW	M1. 7×0. 35-4	05
			K-4	E-8			
			F-8				
K-236	669D315070		I-3	F-4	SCREW	M1. 7×0. 35-6	02
K-245	674D081050	○	D-2		NUT-NYLON		01
K-250	552C001020		B-5	C-5	WASHER-THRUST		03
			G-5				
K-251	552C003020	○	K-8		WASHER-THRUST		01
N-23	439P015010	○	F-9		SW-LEAF	SW571	01
N-24	439P015010	○	E-8		SW-LEAF	SW572	01

ASSEMBLY DECK-2



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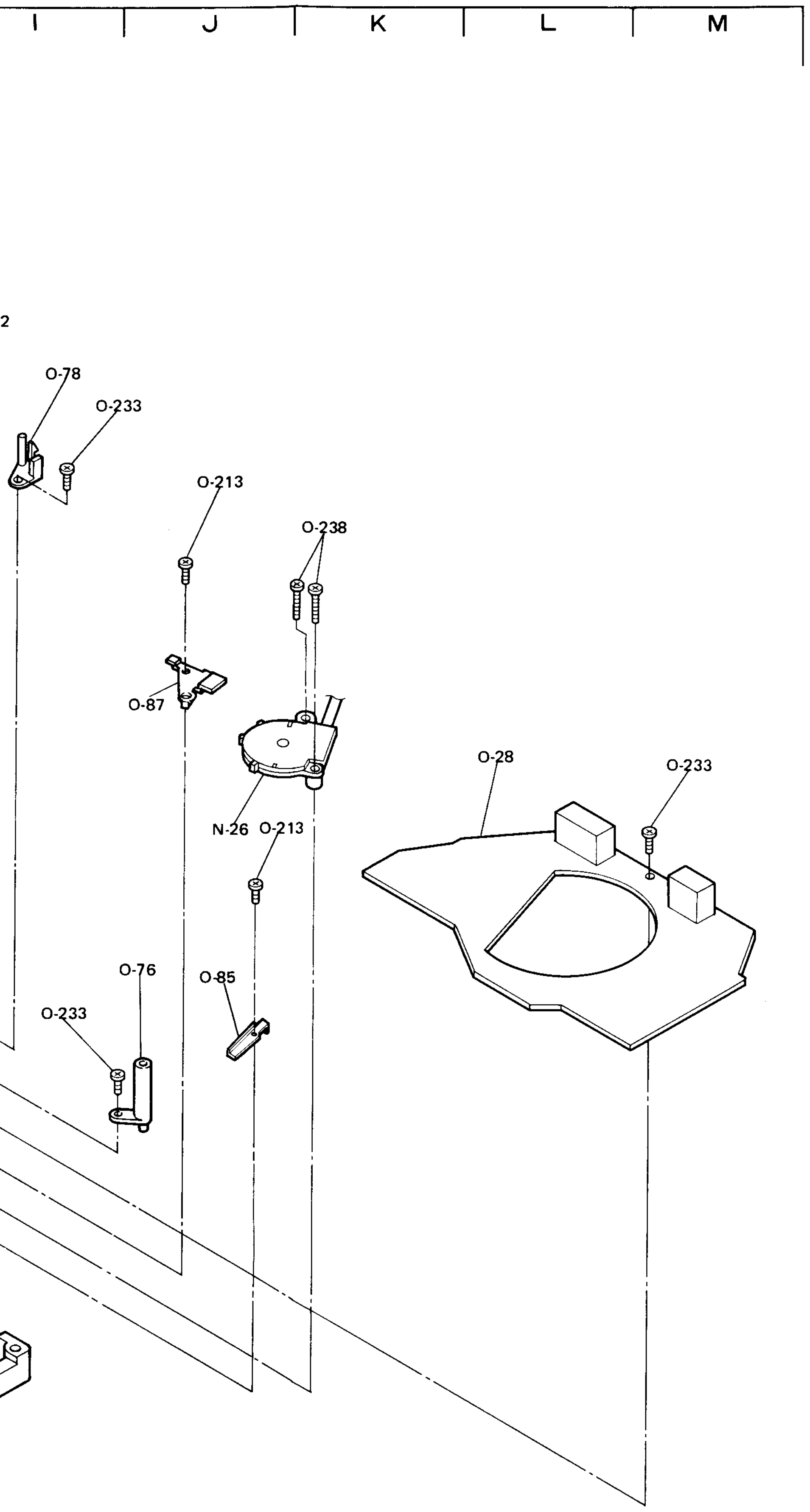


＊Settelled Service Parts

ITEM	PARTS No.	＊	ADDRESS		PARTS NAME	DESCRIPTION	Qt.
	948D023010	○			ASSY-LEVER-EJECT	INCLUDE L-11～L-13	01
L-11	592C806010		D-2		LEVER-EJ		01
L-12	596D122010		C-2		ROD-EJECT		01
L-13	596D119010		C-1		ARM-LOCK-EJECT		01
L-20	552C007010	○	D-2	C-2	CUT-WASHER	1. 6	02
	928C526010	○			ASSY-L-MOTOR	INCLUDE M-11～M-23	01
M-11	641C832010		A-7		HOLDER-MOTOR		01
M-12	621D571010		B-8		WORM-LA		01
M-13	288P084030	○	B-7		MOTOR-LOADING	M 573	01
M-14	521D064010	○	B-8		BELT-L		01
M-15	631D173010		A-8		SHAFT-WORM		01
M-16	621D558010		A-7		GEAR-LA1		01
M-17	550D108010		B-7	B-7	RUBBER-M		02
M-20	552C009030	○	A-7	B-8	CUT-WASHER	1. 2×3. 5-0. 25	02
M-21	552C007010	○	A-8		CUT-WASHER	1. 6	01
M-23	669D344030		A-7	B-7	SCREW-FLANGE	M1. 7×0. 35-2. 2	02
	928C527010	○			ASSY-PWB-SENS	INCLUDE N-11～N-26	01
N-11	641C824010		H-3		HOLDER-SENSE-SA		01
N-12	641C847010		E-6		HOLDER-SENS-TA		01
N-21	268P026010	○	G-3		PHOTO-INTERRUPTER	Q571(GP2L04-B)	01
N-22	268P026010	○	E-6		PHOTO-INTERRUPTER	Q572(GP2L04-B)	01
N-25	439P013020	○	D-6		SW-LIMIT	SW 573	01
N-26	439P014020	○	J-4		SW-MODE	SW 574	01
0-28	928B759040	○	L-5		ASSY-PWB-MDA		01
0-35	288P087010	○	A-4		MOTOR-CP	M 572	01
0-37	522C067020	○	F-3		REEL-IDLER		01
0-40	621D559010		F-5		GEAR-LA2		01
0-41	621D560010		G-5		GEAR-LA3		01
0-50	641B342010		H-4		CAM-GEAR-MA		01
0-66	641C863010		H-2		BRAKE-CP		01
0-76	621D589010		D-7	J-6	HOLDER-PWB-1		02
0-77	621D590010		F-6		HOLDER-PWB-2		01
0-78	621D594010		I-2		HOLDER-PWB-3		01
0-83	596D154010		D-5		LEVER-SW-A		01
0-85	596D219010		J-6		PLATE-EJ-H		01
0-87	596D155010		J-4		PLATE-CAM-H		01
0-101	521D061010	○	F-2		BELT-SYNC		01
0-128	572D360010		E-5		SPRING-SW-A		01
0-201	552C007010	○	C-1 H-4	F-5	CUT-WASHER	1. 6	03
0-205	552C009070	○	G-4		CUT-WASHER	1. 6×3. 2-0. 4	01
0-212	669D277020		I-2		SCREW	M1. 7×0. 35×2	01
0-213	669D277030		J-3 E-7 F-7	J-5 E-7	SCREW	M1. 7×0. 35×3	05
0-216	669D277070		H-6 G-5	H-6	SCREW	M1. 7×0. 35×6	03
0-233	669D315030		E-5 E-3 E-5 F-6 I-2 H-3	A-6 F-3 D-7 I-6 M-5	SCREW	M1. 7×0. 35-3	11
0-236	669D315070		E-6		SCREW	M1. 7×0. 35-6	01
0-238	669D315090		K-3	K-3	SCREW	M1. 7×0. 35-8	02

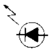
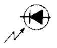
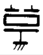
Settelled Service Parts

M	PARTS No.	*	ADDRESS		PARTS NAME	DESCRIPTION	Qt.
	948D023010	○			ASSY-LEVER-EJECT	INCLUDE L-11～L-13	01
1	592C806010		D-2		LEVER-EJ		01
2	596D122010		C-2		ROD-EJECT		01
3	596D119010		C-1		ARM-LOCK-EJECT		01
0	552C007010	○	D-2	C-2	CUT-WASHER	1. 6	02
	928C526010	○			ASSY-L-MOTOR	INCLUDE M-11～M-23	01
1	641C832010		A-7		HOLDER-MOTOR		01
2	621D571010		B-8		WORM-LA		01
3	288P084030	○	B-7		MOTOR-LOADING	M 573	01
4	521D064010	○	B-8		BELT-L		01
5	631D173010		A-8		SHAFT-WORM		01
6	621D558010		A-7		GEAR-LA1		01
7	550D108010		B-7	B-7	RUBBER-M		02
0	552C009030	○	A-7	B-8	CUT-WASHER	1. 2×3. 5-0. 25	02
1	552C007010	○	A-8		CUT-WASHER	1. 6	01
3	669D344030		A-7	B-7	SCREW-FLANGE	M1. 7×0. 35-2. 2	02
	928C527010	○			ASSY-PWB-SENS	INCLUDE N-11～N-26	01
1	641C824010		H-3		HOLDER-SENSE-SA		01
2	641C847010		E-6		HOLDER-SENS-TA		01
1	268P026010	○	G-3		PHOTO-INTERRUPTER	Q571(GP2L04-B)	01
2	268P026010	○	E-6		PHOTO-INTERRUPTER	Q572(GP2L04-B)	01
5	439P013020	○	D-6		SW-LIMIT	SW 573	01
6	439P014020	○	J-4		SW-MODE	SW 574	01
8	928B759040	○	L-5		ASSY-PWB-MDA		01
5	288P087010	○	A-4		MOTOR-CP	M 572	01
7	522C067020	○	F-3		REEL-IDLER		01
0	621D559010		F-5		GEAR-LA2		01
1	621D560010		G-5		GEAR-LA3		01
0	641B342010		H-4		CAM-GEAR-MA		01
6	641C863010		H-2		BRAKE-CP		01
6	621D589010		D-7	J-6	HOLDER-PWB-1		02
7	621D590010		F-6		HOLDER-PWB-2		01
8	621D594010		I-2		HOLDER-PWB-3		01
3	596D154010		D-5		LEVER-SW-A		01
5	596D219010		J-6		PLATE-EJ-H		01
7	596D155010		J-4		PLATE-CAM-H		01
01	521D061010	○	F-2		BELT-SYNC		01
28	572D360010		E-5		SPRING-SW-A		01
01	552C007010	○	C-1 H-4	F-5	CUT-WASHER	1. 6	03
05	552C009070	○	G-4		CUT-WASHER	1. 6×3. 2-0. 4	01
12	669D277020		I-2		SCREW	M1. 7×0. 35×2	01
13	669D277030		J-3 E-7 F-7	J-5 E-7	SCREW	M1. 7×0. 35×3	05
16	669D277070		H-6 G-5	H-6	SCREW	M1. 7×0. 35×6	03
33	669D315030		E-5 E-3 E-5 F-6 I-2 H-3	A-6 F-3 D-7 I-6 M-5	SCREW	M1. 7×0. 35-3	11
36	669D315070		E-6		SCREW	M1. 7×0. 35-6	01
38	669D315090		K-3	K-3	SCREW	M1. 7×0. 35-8	02

SCHEMATIC DIAGRAM

NOTE 1:

- DC voltages were measured from points indicated to the circuit ground with a Digital voltmeter.
- Waveforms of camera section were taken with the four color chart.
- Waveforms of VTR section were taken with standard color bar signal.
- The unit of resistance "ohm" entirely omitted.
  Accordingly, K=1000 ohms.
  M=1000K ohms.
- Resistors, not specifically designated, are R-M-chip resistors.
- The tolerance of resistor value, not specifically designated, is: ±5%.
- The unit of capacitance, not specifically designated, is:
  a) μF, for numbers less than 1
  b) PF, for numbers more than 1
- Capacitors, not specifically designated are Ceramic chip capacitors except electrolytic capacitors.
- The marks of capacitors are as follows:
  TAN : Tantalum capacitor
  : Electrolytic capacitor
- The tolerance of capacitor value, not specifically designated is: ±10%
  and J = ±5% K = ±10% M = ±20% $P = ^{+100\%}_{-\ \ 0\%}$
  C = ±0.25PF D = ±0.5PF F = ± 1PF $Z = ^{+80\%}_{-20\%}$ N =±30%
- Ceramic capacitors with the marks RH, UJ, SL, etc. are temperature compensating types.

SPECIFIC SYMBOL			
	Zener Diode		Crystal unit
	LE Diode		
	Photo Diode		Ceramic filter

This is a basic schematic diagram. Some sets may be subject to modification according to engineering improvement.

DC VOLTAGE TABLES

AUTO FOCUS (PCB-AE)

(LENS CAP ON)

IC5AA

PIN No.		PIN No.		PIN No.		PIN No.	
1	0V	21	5.3V	41	0V	61	3.4V
2	5.3V	22	0V	42	0V	62	4V
3	5.3V	23	0V	43	0V	63	0V
4	0V	24	0V	44	0V	64	0V
5	0V	25	0V	45	0V	65	3.3V
6	0V	26	5.3V	46	4.4V	66	0V
7	0V	27	0V	47	4.4V	67	0V
8	0V	28	0V	48	0V	68	4.8V
9	0V	29	5.3V	49	0V	69	4.8V
10	5.3V	30	0V	50	0V	70	0V
11	5.3V	31	0V	51	0V	71	4.8V
12	0V	32	0V	52	0V	72	5.3V
13	0V	33	0V	53	0V	73	0V
14	0V	34	0V	54	0V	74	0V
15	0V	35	0V	55	0V	75	5.3V
16	0.1V	36	5.3V	56	0V	76	0V
17	0V	37	5.3V	57	0V	77	0V
18	0.4V	38	0V	58	0V	78	0V
19	0.5V	39	0V	59	0V	79	5.3V
20	5.3V	40	0V	60	0V	80	0V

IC5AG

PIN No.	
1	2.6V
2	0V
3	2.5V
4	3.2V
5	0.2V
6	1.7V
7	3.4V
8	1.6V
9	1.6V
10	4.8V

IC5BC

PIN No.	
1	3.2V
2	3.2V
3	0V
4	0V
5	1.9V
6	1.9V
7	2.4V
8	4.8V

TRANSISTOR

SYMBOL	(E)	(B)	(C)
Q5BC	1.9V	2.4V	0V
Q5FA	3.7V	4.4V	4.8V
Q5LA	0V	0V	6.4V
Q5ZB	9.1V	8.5V	9.1V

ENCODER (PCB-AE)

(LENS CAP ON)

IC2AE

PIN No.	
1	4.4V
2	0V
3	0V
4	0.5V
5	4.9V

IC2AF

PIN No.	
1	9.8V
2	4.9V
3	5.3V
4	0V
5	0V

TRANSISTOR

SYMBOL	(E)	(B)	(C)
Q2AA	1.7V	1V	0V
Q2AB	2V	2.6V	4.9V
Q2ED	3.7V	3.2V	1V
Q2EE	1.5V	1.1V	0V

PCB-CM

(LENS CAP ON)
(Shut off the white balance sensor stick a black tape, etc)

IC7AA

PIN No.		PIN No.	
1	0V	51	0V
2	0V	52	5.3V
3	0.5V	53	0V
4	0V	54	5.3V
5	0V	55	5.3V
6	0V	56	5.3V
7	5.3V	57	0V
8	0V	58	1.9V
9	0V	59	0V
10	5.3V	60	0V
11	0V	61	3.5V
12	5.3V	62	0V
13	0V	63	2.4V
14	0V	64	0.7V
15	4.9V	65	0.7V
16	0V	66	2.4V
17	4.9V	67	0V
18	5.3V	68	4.9V
19	0V	69	4.9V
20	5.3V	70	0V
21	5.3V	71	4.9V
22	5.3V	72	5.3V
23	5.3V	73	0V
24	0V	74	0V
25	0V	75	5.2V
26	5.3V	76	0V
27	0V	77	5V
28	0V	78	0V
29	5.3V	79	0V
30	0V	80	0V
31	0V		
32	0V		
33	0V		
34	0V		
35	0V		
36	0V		
37	0V		
38	0V		
39	0V		
40	0V		
41	0V		
42	5.3V		
43	0V		
44	5.3V		
45	0V		
46	5.3V		
47	0V		
48	0V		
49	0V		
50	0V		

IC7BA

PIN No.	
1	0V
2	1.9V
3	1.9V
4	1.8V
5	0V
6	5.3V
7	5.3V
8	0V
9	5.3V
10	0.1V
11	0V
12	0.5V
13	0V
14	5.3V
15	5.3V
16	5.3V
17	0V
18	5.3V
19	5.3V
20	0V
21	0V
22	0V
23	0V
24	0V
25	0V
26	0V
27	4.9V
28	0V
29	0V
30	0V
31	0V
32	0V
33	0V
34	0V
35	0V
36	0V
37	0V
38	0V
39	0V
40	0V
41	0V
42	4.9V
43	0V
44	0V

IC7BD

PIN No.	
1	2.3V
2	0V
3	5.3V
4	0V
5	0V
6	5.3V
7	0V
8	5.3V
9	0V
10	0V
11	0V
12	0V
13	5.3V
14	5.3V

IC7CA

PIN No.	
1	1.9V
2	1.8V
3	1.8V
4	4.9V
5	1.8V
6	1.9V
7	1.8V
8	1.8V
9	1.8V
10	1.8V
11	0V
12	1.9V
13	1.9V
14	1.9V

IC7CB

PIN No.	
1	4.9V
2	1.9V
3	1.9V
4	0V
5	2V
6	0.9V
7	1.9V
8	4.9V

IC7DA

PIN No.	
1	0V
2	2.4V
3	2.4V
4	2.4V
5	2.4V
6	0.5V
7	1.5V
8	1.8V
9	0V
10	4.9V
11	5.3V
12	0V
13	0V
14	5.3V
15	0V
16	5.3V
17	5.3V
18	2.4V
19	2.4V
20	0V

IC7EA

PIN No.	
1	0.5V
2	0.5V
3	0.5V
4	4.9V
5	1.5V
6	1.5V
7	1.5V
8	2.4V
9	2.4V
10	2.4V
11	0V
12	2.4V
13	2.4V
14	2.4V

IC7EB

PIN No.	
1	2.4V
2	2.4V
3	2.4V
4	4.9V
5	2.4V
6	2.4V
7	2.4V
8	2.4V
9	2.4V
10	2.4V
11	0V
12	2.4V
13	2.4V
14	2.4V

IC7RA

PIN No.	
1	5.3V
2	0V
3	5.3V

TRANSISTOR

SYMBOL	(E)	(B)	(C)
Q7CA	1.9V	0.1V	1.9V
Q7CC	0V	0.7V	0V
Q7HA	0V	0V	4.9V
Q7RA	0V	0V	5.3V

PCB-PC

(LENS CAP ON)

IC1AA

PIN No.	
1	3.2V
2	2.2V
3	2.2V
4	2.2V
5	3.2V
6	2V
7	3.2V
8	1.7V
9	2V
10	3.2V
11	2V
12	1.7V
13	2V
14	1.6V
15	3V
16	1.8V
17	2.1V
18	2.1V
19	0V
20	3V
21	1.8V
22	2.5V
23	2.4V
24	1.7V
25	3.2V
26	2.3V
27	3.2V
28	2V
29	1.8V
30	2V
31	1.9V
32	1.9V
33	1.9V
34	1.8V
35	1.9V
36	3V
37	1.9V
38	2.3V
39	1.9V
40	5V
41	0.8V
42	3.2V
43	0.5V
44	0.5V
45	1.1V
46	1.8V
47	1.3V
48	1.9V

IC1AB

PIN No.	
1	0.5V
2	2V
3	1.9V
4	0V
5	1.9V
6	1.9V
7	1.9V
8	4.8V

IC1AC

PIN No.	
1	1.9V
2	1.8V
3	1.9V
4	4.8V
5	2.4V
6	2.3V
7	2V
8	1.8V
9	0V
10	5V
11	2.2V
12	0V
13	2V
14	1.8V
15	4.8V
16	2V
17	1.8V
18	0V

IC1AD

PIN No.	
1	2.7V
2	2.4V
3	0V
4	0.2V
5	4.8V

IC1AE

PIN No.	
1	1.9V
2	3.8V
3	2.8V
4	1.9V
5	0.2V
6	0V
7	4.9V
8	2.2V
9	1.9V
10	0.3V
11	9.2V
12	0V
13	2.1V

IC1AF

PIN No.	
1	0V
2	2.2V
3	1.9V
4	2.7V
5	4.9V
6	0V
7	2.1V
8	9.2V
9	1.7V
10	4.8V
11	0V

IC-1AH

PIN No.	
1	2.5V
2	2.4V
3	2.5V
4	0V
5	2.5V
6	2.4V
7	2.5V
8	4.9V

IC1AK

PIN No.	
1	1.8V
2	1.9V
3	1.9V
4	0V
5	1.9V
6	1.9V
7	8.5V
8	9.1V

TRANSISTOR

SYMBOL	(E)	(B)	(C)
Q1AA	1.5V	2.1V	4.8V
Q1AC	2.4V	2.1V	0V
Q1AF	1.9V	0.2V	2.1V
Q1AJ	1.2V	1.8V	4.8V
Q1AK	2.3V	1.7V	0V
Q1AN	1.1V	1.8V	4.9V
Q1AP	1.4V	2V	4.9V
Q1AS	0.5V	1.1V	4.8V
Q1AV	2.2V	2.8V	4.8V
Q1AX	4.8V	5.5V	4.9V
Q1AY	1.9V	0.1V	0.8V
Q1BC	2.5V	3.1V	4.9V
Q1BD	1.8V	0.1V	3.3V
Q1BE	0V	1.1V	0.8V
Q1BF	1.5V	0.9V	0V
Q1BG	2.5V	1.9V	0V
Q1BH	0.3V	0.9V	4.4V
Q1BJ	1.1V	1.7V	4.9V
Q1BK	1.9V	0.1V	2.6V
Q1BM	3V	3.7V	4.9V

TRANSISTOR

SYMBOL	1	2	3	4	5	6
Q1AB	4.9V	1.9V	2.4V	0V	2.4V	2V
Q1AD	4.9V	1.8V	1.2V	3.9V	2V	1.4V
Q1AE	4.9V	3.9V	3.3V	4.9V	3.9V	3.3V
Q1AG	4.9V	2.1V	1.5V	4.9V	1.5V	1.5V
Q1AH	0V	1.5V	1.8V	0V	1.2V	1.7V
Q1AL	2.7V	3.3V	4.8V	2.7V	3.3V	4.8V
Q1AM	2.7V	1.7V	1.1V	4.8V	1.9V	1.2V
Q1AQ	0V	0.8V	1.4V	0V	1.9V	1.4V
Q1AR	4.8V	2.5V	1.9V	4.9V	1.8V	1.2V
Q1AZ	4.9V	1.9V	1.2V	3.1V	1.8V	1.2V
Q1BA	0V	1.9V	2.4V	0V	1V	0.8V
Q1BB	4.9V	2.4V	1.9V	4.8V	0.8V	1.8V
Q1BL	0V	2.6V	2.4V	0V	1.9V	2.4V

DC VOLTAGE TABLES

The voltages parenthesised are on SP recording mode.
While those without parenthesised on SP play back mode.

INT (PCB-SIGNAL)

IC2D0

PIN No.		PIN No.	
1	0.8V	26	0V
2	0.5V(3.3V)	27	5.6V
3	5.2V	28	0V
4	5.6V	29	5.6V
5	5.2V	30	0.6V
6	5.4V	31	5.6V
7	5V	32	5.6V
8	0V	33	4.3V
9	4.4V	34	5.6V
10	4.3V	35	4.3V
11	0.5V(3.3V)	36	4.7V
12	5.1V	37	0V
13	0V	38	8.5V
14	0.6V	39	3.7V
15	4.4V	40	3.4V
16	0V	41	2.2V
17	0V	42	2V
18	0V		
19	0V		
20	0V		
21	4V		
22	4.3V		
23	3V		
24	8.7V		
25	5.6V		

IC2F1

PIN No.	
1	4.6V
2	0V
3	5.5V
4	0V
5	3.5V
6	8.5V
7	3.7V
8	0V

IC2P0

PIN No.	
1	3.7V
2	3.7V
3	3.9V
4	0V
5	2.8V
6	2.9V
7	0.5V(3.3V)
8	1.6V
9	5V
10	0V
11	0V
12	0V
13	4.2V
14	4V
15	0.1V
16	0V
17	2V

IC603

PIN No.	
1	3V
2	0V
3	3V
4	0V(5V)
5	3V
6	5V
7	2.2V
8	0V

IC604

PIN No.	
1	2.6V
2	2.1V
3	0V
4	3.2V
5	3.1V
6	5V
7	3.6V
8	3.5V

TRANSISTOR

SYMBOL	(E)	(B)	(C)
Q2D1	0.6V	0V	0V
Q2D2	0.6V	0V	0V
Q2P0	2V	1.4V	0V
Q2X1	0V	0V	0V
Q603	3.1V(0V)	4V(0V)	1.6V(0.4V)
Q604	2.4V(0.4V)	1.2V(0V)	3V(0V)
Q608	0V	5V	0V
Q609	0V	0V(5V)	4.2V(0V)

TRANSISTOR

SYMBOL	1	2	3	4	5	6
Q2F6	8.5V	3.4V	4.1V	0V	5.1V	4.5V
Q2G0	5.2V	0V	0V	5.2V	0V	0V
Q2P1	0V	0V	2.1V	2.1V	1.6V	
Q607	0V	0V	0V	0V	0V	0V

Y (PCB-SIGNAL)

IC2001

PIN No.		PIN No.	
1	2.3V	21	2.3V
2	0V	22	5V
3	1.7V	23	1.1V(0.7V)
4	2V	24	0V
5	3.2V	25	2.7V
6	2.5V	26	5V
7	4.8V	27	0V(5V)
8	0.4V	28	3.3V
9	5V	29	2.4V
10	2.2V	30	0V
11	0.2V	31	3V
12	2.5V(0V)	32	2.3V
13	3V	33	2.5V
14	2.4V	34	2.8V
15	5V	35	5V
16	2V(0V)	36	2.2V(1.5V)
17	0V	37	4.3V(2.3V)
18	~	38	3.2V
19	1.4V		
20	2V		

IC2201

PIN No.	
1	0.4V
2	4.7V(0V)
3	0.5V(0V)
4	0V
5	2.8V(0V)
6	0V
7	5V
8	2.6V(0V)
9	4.7V(0.4V)
10	0V
11	4.1V(0.1V)
12	1.1V(0.1V)
13	0V
14	2V(0V)

TRANSISTOR

SYMBOL	(E)	(B)	(C)
Q2002	1.7V	1V	0V
Q2003	0V	0.5V	0V
Q2007	0V	0V	0V
Q2020	5V	5.1V	3V
Q2027	0V	5V(0V)	0V(0.6V)
Q2029	0V	0V(0.5V)	0V
Q2031	1.6V	2.7V	0V
Q2101	3.4V	2.8V	0V
Q2102	5.7V	6.4V	8.7V
Q2201	0V	0V	1V(0.1V)
Q2212	3V(0V)	3.7V(0.4V)	4.7V(0.4V)
Q2213	3.5V(0.4V)	3V(0V)	1.1V(0V)
Q2214	0.5V(0V)	1.1V(0V)	4.7V(0.4V)
Q2230	0.9V(0V)	1.5V(0.1V)	3.6V(0.4V)
Q2232	3V(0V)	3.5V(0.4V)	4.7V(0.4V)
Q2233	3.4V(0.4V)	2.8V(0V)	1.2V(0V)
Q2234	2.8V(0V)	3.4V(0.4V)	4.7V(0.4V)
Q2301	5.1V	5.1V(4.3V)	0V(5V)
Q2302	5.1V	4.3V(5.1V)	5V(0.4V)
Q2306	5.1V	0V	5.1V

TRANSISTOR

SYMBOL	1	2	3	4	5	6
Q2022	0V	0V	5V	0V	5V	
Q2023	0V	0V	0V	0V	0V	
Q2024	0V	0V	5V	0V	5V	
Q2030	5V	4.4V(3.4V)	5V(4V)	2.2V	2.2V	1.6V
Q2202	1V(0.1V)	0V	5V	0V	0V	

PCB-HEAD AMP

IC201

PIN No.	
1	~
2	0.7V(0V)
3	0.6V(0V)
4	0.6V(0V)
5	0.8V(0V)
6	0V
7	0.7V(0V)
8	0.6V(0V)
9	0.6V(0V)
10	0.7V(0V)
11	0V
12	2.2V(0V)
13	2.6V(0V)
14	4.3V(1V)
15	2.7V(0V)
16	4.8V(0.4V)
17	0V
18	4.8V(0.4V)
19	0V
20	1.7V(0V)
21	4.8V(0.4V)
22	4.7V(0.4V)

IC3200

PIN No.	
1	0V(4.9V)
2	0.5V(1.3V)
3	2.8V
4	0V
5	5V(0V)
6	5V
7	2.5V(3.3V)
8	2.7V
9	5V
10	0V
11	0V
12	~
13	0V(4.6V)
14	0V(3.7V)
15	0V(3.8V)
16	0.7V(0V)
17	0.6V(0V)
18	0V
19	0.6V(0V)
20	0.7V(0V)
21	0V
22	0V(3.7V)
23	0V
24	0V(0.6V)

TRANSISTOR

SYMBOL	(E)	(B)	(C)
Q201	0V(0.9V)	0V	0.1V(8.3V)
Q202	0V	5V	0V
Q203	0V	0V	8.4V
Q204	8.4V	8.3V	0V
Q205	0V(0.9V)	0V(1.6V)	0.1V(8.3V)
Q206	0V	0V	0V
Q213	8.7V	8.7V(7.7V)	0.1V(8.3V)
Q214	0V	0V(5.3V)	8.7V(0V)
Q215	0.1V(1.3V)	0.8V(2V)	0.1V(8.3V)
Q216	0.1V(8.2V)	0V(10V)	0V

TRANSISTOR

SYMBOL	(E)	(B)	(C)
Q220	0.1V(1.3V)	0.8V(2V)	0.1V(6.3V)
Q221	0.1V(8.2V)	0V(7.4V)	0V(8.2V)
Q222	0V	0V	0V
Q223	0V	0V	0V
Q226	0V	0V	1.3V(0.4V)
Q227	2V(0V)	2.7V(0V)	4.8V(0.4V)
Q229	0V(1.3V)	0V(1.8V)	0.1V(8.2V)
Q230	0V(1.3V)	0V(1.8V)	0.1V(8.2V)
Q231	0V(5.9V)	0.1V(6.3V)	0.1V(8.3V)
Q232	0V(3.5V)	0V(4V)	0.1V(8.4V)
Q242	0V(1.3V)	0V(1.8V)	0.1V(8.2V)
Q3202	3.1V(4.4V)	2.5V(3.8V)	0V

TRANSISTOR

SYMBOL	1	2	3	4	5	6
Q211	5V	5V	5V	0V	0V	0V
Q212	0V(5V)	0V	5.1V	5V(0V)	4.9V(0.4V)	0V
Q217	0.2V	5V	0.2V	5.1V	5.1V	
Q218	0V(8.2V)	0V	0.7V	0V	0.7V(0V)	
Q219	0.7V(0V)	0.7V	0V	0V	0V(8.2V)	
Q224	0V	0V	0V(0.7V)	0V	0V(0.7V)	
Q225	0V	0V	0.6V	0V	0.6V	
Q228	1.2V(0.4V)	5.1V	5V(0.4V)	0V	0V	0V
Q241	0V	0V(8.3V)	0V	0V	0.6V	
Q3200	4.9V(0V)	0V(5V)	4.9V(0.4V)	0V	0V(5.3V)	
Q3201	2.7V	0V	3.2V	0V	0V	

TELOP (PCB-SIGNAL)

IC4001

PIN No.		PIN No.		PIN No.	
1	0V	26	0V	51	0V
2	0V	27	0V	52	0V
3	3.7V	28	0V	53	0V
4	0V(0.4V)	29	0V	54	0V
5	4V(0.1V)	30	5.1V	55	0V
6	4V(0.1V)	31	0V	56	0V
7	0V(4.1V)	32	0V	57	5.1V
8	0V	33	0V	58	5.1V
9	0V	34	5.1V	59	0V
10	5.1V	35	0V	60	0V
11	0V	36	0.3V	61	0V
12	0V	37	5.1V	62	0V
13	0V	38	0.2V	63	0V
14	0V	39	0V	64	0V
15	0V	40	5.1V		
16	0V	41	0V		
17	3.2V	42	0V		
18	0V	43	0V		
19	5.1V	44	0~0.7V		
20	0V	45	2~5V		
21	0V	46	5.1V		
22	0V	47	4.5~5.1V		
23	0V	48	5.1V		
24	0V	49	0V		
25	5.1V	50	0V		

IC4002

PIN No.	
1	0V
2	0V
3	0V
4	0V
5	0V
6	0V
7	5.1V
8	0V
9	0V
10	0V
11	0V
12	0V
13	0V
14	0V
15	0V
16	0V
17	0V
18	0V
19	0V
20	5.2V
21	0V
22	0V
23	0V
24	0V
25	0V
26	0V
27	5.1V
28	5.3V

IC4003

PIN No.	
1	0V
2	2.7V
3	2.7V
4	0V
5	5V
6	5V
7	3.2V
8	5.1V

IC4004

PIN No.	
1	0V
2	5.1V
3	0V
4	5.1V
5	5.1V

TRANSISTOR

SYMBOL	1	2	3	4	5	6
Q4001	5.1V	2.3V	2.8V	0V	2.8V	2.7V

CONTROL (PCB-MAIN)

IC5A0

PIN No.		PIN No.		PIN No.	
1	5.3V(0V)	31	0V	61	2.6V
2	0V(3.6V)	32	0V	62	2~3V(2.6V)
3	2~3V(1.2V)	33	0V(5.1V)	63	5.3V
4	4V(0.1V)	34	5.1V(0V)	64	0V
5	~	35	0V(5V)	65	0V(5.3V)
6	2~3V	36	0V	66	0V(5.3V)
7	~	37	0V	67	0V(5.3V)
8	~	38	0V	68	5.3V
9	0.4V(~)	39	4.3V	69	0V
10	0V(~)	40	0V	70	0V
11	~	41	2.4V	71	0~0.8V
12	5.3V	42	2.4V	72	0V
13	5.3V	43	5.1V	73	5.3V
14	5V	44	5.3V	74	5.3V
15	0V	45	2.5V	75	5.3V
16	0V	46	2.7V	76	5.1V
17	0V	47	0V	77	2.5V(~)
18	5.2V	48	0V	78	0V
19	5.2V	49	0V	79	~
20	5V(5.4V)	50	0V	80	~
21	5.3V	51	0V		
22	5V	52	5.3V		
23	0.6V	53	5.3V		
24	4.8V	54	5.3V		
25	5.1V	55	5.3V		
26	4V	56	0V		
27	0V	57	0.2V		
28	5.3V	58	3.1V		
29	2.2V	59	2.6V		
30	2V	60	2.6V		

IC5A1

PIN No.	
1	5.1V
2	0V
3	0V
4	0V
5	5.3V
6	0V
7	0V
8	0V
9	0V
10	5V
11	~
12	0V
13	~
14	5.3V

IC5A2

PIN No.	
1	0V
2	0.4V
3	0V
4	0V
5	2.8V
6	2.6V
7	0.5V
8	5.3V

IC4A0

PIN No.	
1	2.6V
2	2.6V
3	2.7V
4	0V
5	2.7V
6	2.7V
7	2.7V
8	5.1V

IC4A2

PIN No.	
1	0V
2	10.1V
3	0V
4	0V
5	0V
6	10.1V
7	0V
8	6.6V
9	0V

TRANSISTOR

SYMBOL	(E)	(B)	(C)
Q5A0	0V	0.5V	0V
Q5A4	0V	0V	8.5~9.2V
Q5A5	5.3V	5.3V	0~0.5V
Q5B0	5.1V	0V	5.1V
Q5B1	5.1V	0V	5.1V
Q5B2	0V	~	~
Q4B1	5.3V	5.3V	2.5V
Q4B2	5.1V	5.2V	5.1V
Q4C1	2.7V	2.7V	2.7V
Q4F0	10.1V	9.4V	10.1V
Q4F1	0V	5.3V	0V
Q4S0	5.1V	5V	2V(0V)

TRANSISTOR

SYMBOL	1	2	3	4	5	6
Q5A2	~	0~0.5V	0V	~	0~0.5V	0V
Q5A3	0V(3.7V)	5.1V	5.1V	0V(3.6V)	0.5V	0V
Q4B0	2.5V	2.5V	5.1V	5.3V	5.2V	
Q4C0	5.1V	2V	2.5V	0V	2.5V	2V

AUDIO (PCB-MAIN)

IC301

PIN No.	
1	2.5V
2	2.5V
3	0V
4	2.5V
5	0V
6	0V
7	1.8V
8	0.3V
9	2.5V
10	0.2V(5V)
11	0.3V(4.4V)
12	2.5V
13	5.3V(0V)
14	2.5V
15	0V
16	0V
17	0V
18	3.1V
19	2.5V
20	2.5V
21	2.5V
22	0V
23	0V
24	2V
25	0V
26	2V
27	5.1V
28	2V
29	5.1V
30	2V
31	2.5V
32	2.5V

IC3001

PIN No.	
1	4.2V
2	4.2V
3	4.2V
4	4.2V
5	8.5V
6	4.3V
7	4.3V
8	0V
9	0V
10	4.3V
11	4.3V
12	4.2V
13	4.2V
14	4.2V
15	0V
16	0V
17	0V
18	0V
19	4.7V
20	4.7V
21	5.1V(2.5V)
22	5.3V
23	2~3V(1.2V)
24	0V
25	1.8V
26	5V

TRANSISTOR

SYMBOL	1	2	3	4	5	6
Q302	0V	0V	0.7V(−23.4V)	0V(−15V)	0.6V(−24V)	
Q303	0V	0V	0V	0V	0V	0V
Q304	0.6V(4.8V)	0.6V(0V)	0V(5.3V)	0V	0V	
Q306	0V	5.1V	5.1V	0V	5V	0V
Q309	5.1V(0V)	8.3V(0V)	0V(4.3V)	0V	0V(5.3V)	
Q3004	0V	5.1V	0V	5.1V	5.1V	
Q3005	0.2V	0.2V	0V	0V	0V	
Q3006	5.3V	5.3V	5.3V	0V	0V	0V

TRANSISTOR

SYMBOL	(E)	(B)	(C)
Q301	5.1V	0.2V(5V)	5.0V(−23.4V)
Q307	0V	0V	0V(4.6V)
Q308	0V	0V	0V(4.3V)
Q310	5.1V	5.1V(4.3V)	0V(4.9V)
Q311	8.3V	8.3V(7.3V)	0.1V(8V)
Q3001	5.1V	0V(5V)	5.1V(2.5V)
Q3002	0V	0V	0V
Q3003	0V	0V	0V
Q3007	5.1V	5.1V	0V

PCB-OPERATION SUB

IC8700

PIN No.		PIN No.		PIN No.	
1	~	26	2.5V	51	0V
2	~	27	0V	52	0V
3	3~5V	28	4~5.2V	53	5~5.5V
4	5V	29	4.7V	54	0V
5	2~5V	30	0V	55	5.3V
6	5~5.5V	31	4~5.5V	56	5.3V
7	5.3V	32	4~5.5V	57	0V
8	4.5~5.1V	33	4~5.5V	58	5.3V
9	4.8~5.5V	34	4~5.5V	59	5.3V
10	5~5.5V	35	4~5.5V	60	5.3V
11	0V	36	4~5.5V	61	5.3V
12	4.5~5.4V	37	4~5.5V	62	5.3V
13	4~5.4V	38	0V	63	0.7V
14	4.9~5.4V	39	3~5.3V	64	4.3V
15	0V	40	0V		
16	2~3V	41	5.3V		
17	~	42	0~0.7V		
18	5V	43	5.3V		
19	0V	44	5.3V		
20	5.3V	45	5.3V		
21	2.4V	46	5.3V		
22	0.8V	47	5.3V		
23	0V	48	4~5V		
24	5.3V	49	4~5.2V		
25	0V	50	5.3V		

IC8701

PIN No.	
1	1.6V
2	0V
3	4~5.2V
4	4~5.2V
5	4~5V
6	1.6V
7	1.6V
8	0V
9	0V
10	0V
11	0V
12	1.6V
13	0V
14	0V

IC8702

PIN No.	
1	5.3V
2	5.3V
3	0V

IC8703

PIN No.	
1	0V
2	5.3V
3	1.6V

TRANSISTOR

SYMBOL	(E)	(B)	(C)
Q8701	0V	0V	5.3V
Q8704	0V	0.6V	0V
Q8705	0.7V	5.3V	0.1V
Q8706	5.3V	4.7V	5.3V
Q8707	0V	0V	5.3V
Q8721	0V	5.3V	0V
Q8724	0V	0V	1.6V
Q8725	0V	0V	1.6V
Q8727	0.7V	0.3V	0.7V

TRANSISTOR

SYMBOL	1	2	3	4	5
Q8720	0.1V	0V	0.5V	0V	0V

OPERATION (PCB-MAIN)

IC8000

PIN No.		PIN No.	
1	0V	17	0.8V
2	5V	18	5V
3	5V	19	0V
4	2.4V	20	0V
5	2.2V	21	0V
6	0V	22	0V
7	3~5V	23	0V
8	2~5V	24	0V
9	0.2V	25	0V
10	5V	26	0V
11	0V	27	4~5V
12	0V(0~0.6V)	28	2.3V
13	0V(0~0.5V)	29	2.3V
14	0.6V	30	0.3V
15	1.7V	31	0V
16	0.6V	32	5V

IC8001

PIN No.	
1	5.1V
2	~
3	~
4	4.9V
5	~
6	~
7	0V
8	0V
9	~
10	~
11	~
12	0V
13	~
14	5.1V

IC8002

PIN No.	
1	0V(5V)
2	4.6V(0V)
3	0V
4	0V
5	0V
6	0V
7	0V
8	0V
9	0.3V
10	0V(5.1V)
11	0V
12	4V
13	5V
14	4V
15	4.6V(5V)
16	5.1V

IC8003

PIN No.	
1	0V
2	0V
3	0V
4	0V
5	0V
6	0V
7	0V
8	4V
9	5.1V
10	0V
11	0.3V
12	3.7V
13	5.1V
14	5.1V

TRANSISTOR

SYMBOL	(E)	(B)	(C)
Q8002	0V	0.6V	0V

TRANSISTOR

SYMBOL	1	2	3	4	5	6
Q8003	5.1V	0V	0V	5.1V	0V	0V

DC VOLTAGE TABLES

PCB-MDA

IC400

PIN No.	
1	4.3V
2	0~3V
3	0V
4	4V
5	0V
6	0V
7	0.3V
8	4V
9	3.3V
10	2.5V
11	0V(2.7V)
12	3V
13	5V
14	0V
15	0V
16	0V
17	0V
18	2V
19	2V
20	1.8V
21	1.6V
22	1.6V
23	1.7V
24	0V
25	0~3V
26	0V
27	0V
28	0~3V

IC420

PIN No.	
1	0V
2	2.5V
3	2.5V
4	2.5V
5	2.5V(2~3V)
6	2.5V
7	2.5V
8	2.5V
9	5V
10	2.5V
11	2.5V
12	2.6V
13	0~0.5V
14	0V
15	~
16	2.5V(~)
17	2.5V(~)
18	0V
19	2.5V(~)
20	2.5V

IC421

PIN No.	
1	2.5V
2	2.5V
3	2.5V
4	0V
5	2.6V
6	2.6V
7	2.5V
8	5V

IC450

PIN No.		PIN No.	
1	0V	13	1.1V
2	0V	14	2.5V
3	0V	15	2.4V
4	2.1V	16	3.8V
5	0V	17	3.8V
6	2V	18	4.4V
7	6.1V	19	2.7V
8	2V	20	2.5V
9	0V	21	0.3V
10	0V	22	5.1V
11	4V	23	1.8V
12	1.1V	24	2.4V

TRANSISTOR

SYMBOL	(E)	(B)	(C)
Q450	0V	0.6V	0V
Q480	0V	0.2V	0.2V(7.5V)

POWER (PCB-MAIN)

IC900

PIN No.	
1	10V
2	2.4V
3	2.4V
4	2.3V
5	6.1V
6	0V
7	2.4V
8	4.1V
9	0V
10	0V
11	0V
12	0V
13	6.8V
14	2.4V
15	0.4V
16	0V
17	5.5V
18	2.4V
19	0V
20	0V
21	2.4V
22	2.2V
23	2.8V
24	2.4V(3V)

IC950

PIN No.	
1	0.6V(4.1V)
2	2.4V
3	0V(2.4V)
4	0V
5	2.4V
6	2.4V
7	2.4V
8	10V

IC952

PIN No.	
1	−0.1V
2	2.1V(2.7V)
3	2.2V
4	0V
5	0V(5.8V)
6	5.1V
7	0V(5V)
8	10V

TRANSISTOR

SYMBOL	(E)	(B)	(C)
Q930	10.1V	9.5V	8.7V
Q932	8.4V	8.7V	10.1V
Q940	10V	9.7V	4.3V
Q941	10V	9.6V	6.1V
Q970	5.1V	5.1V(0.5V)	−0.1V(5V)
Q971	0V(5V)	−0.1V(5V)	5.3V
Q972	5.3V	5.3V(4.7V)	0V(5.3V)
Q980	10.1V	9.5V	5.3V

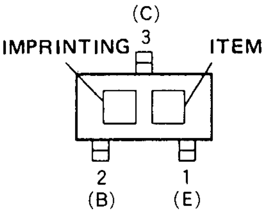
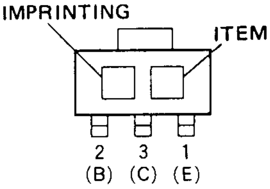
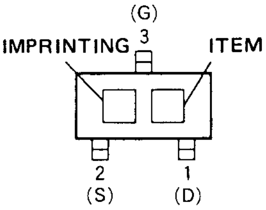
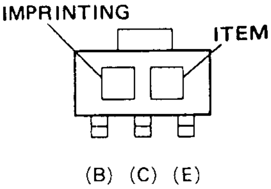
IC980

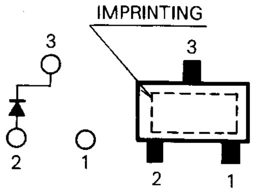
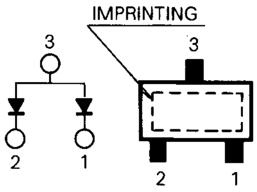
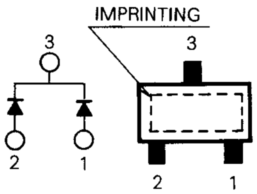
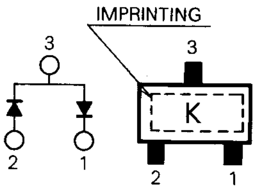
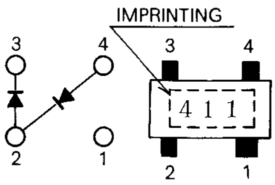
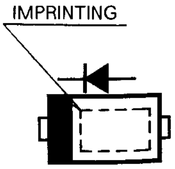
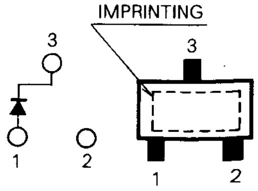
PIN No.	
1	0.1V
2	9.5V
3	5.3V

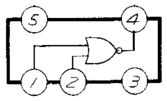
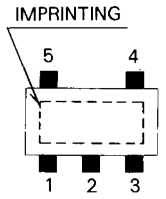
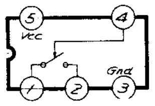
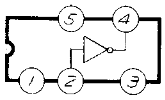
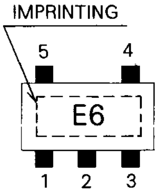
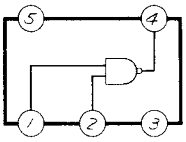
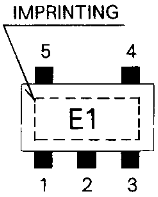
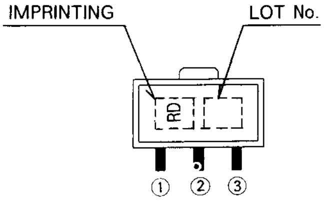
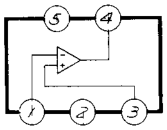
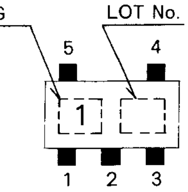
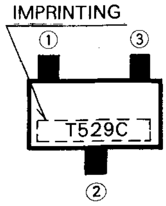
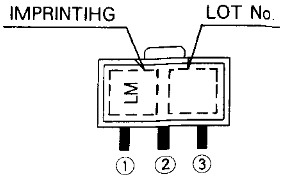
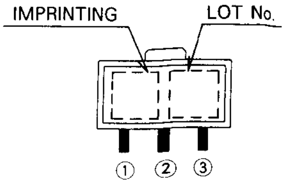
TRANSISTOR

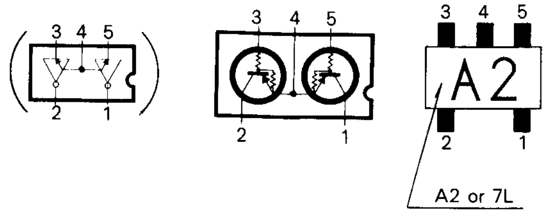
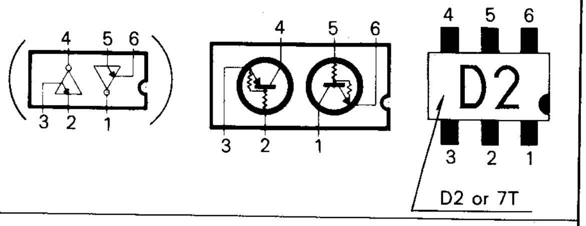
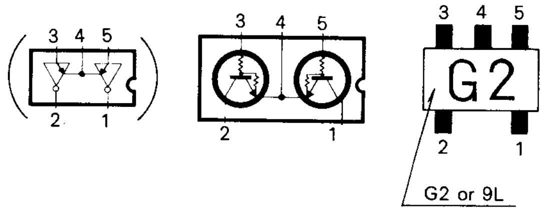
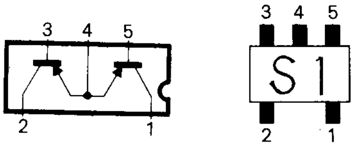
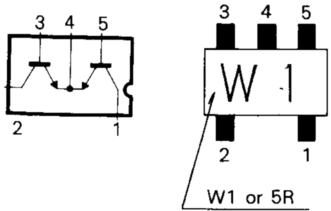
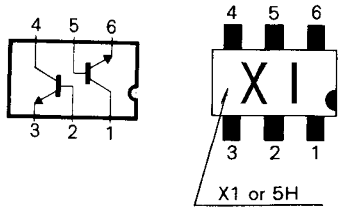
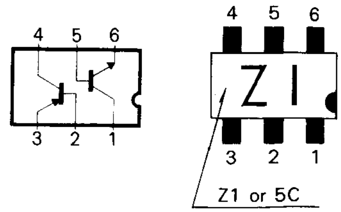
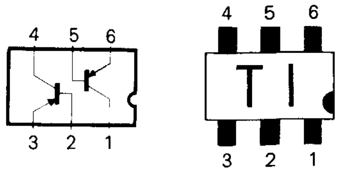
SYMBOL	1	2	3	4	5	6
Q900	0V	0V	10.1V	10V	5.3V	0V

CHIP PARTS SHAPES

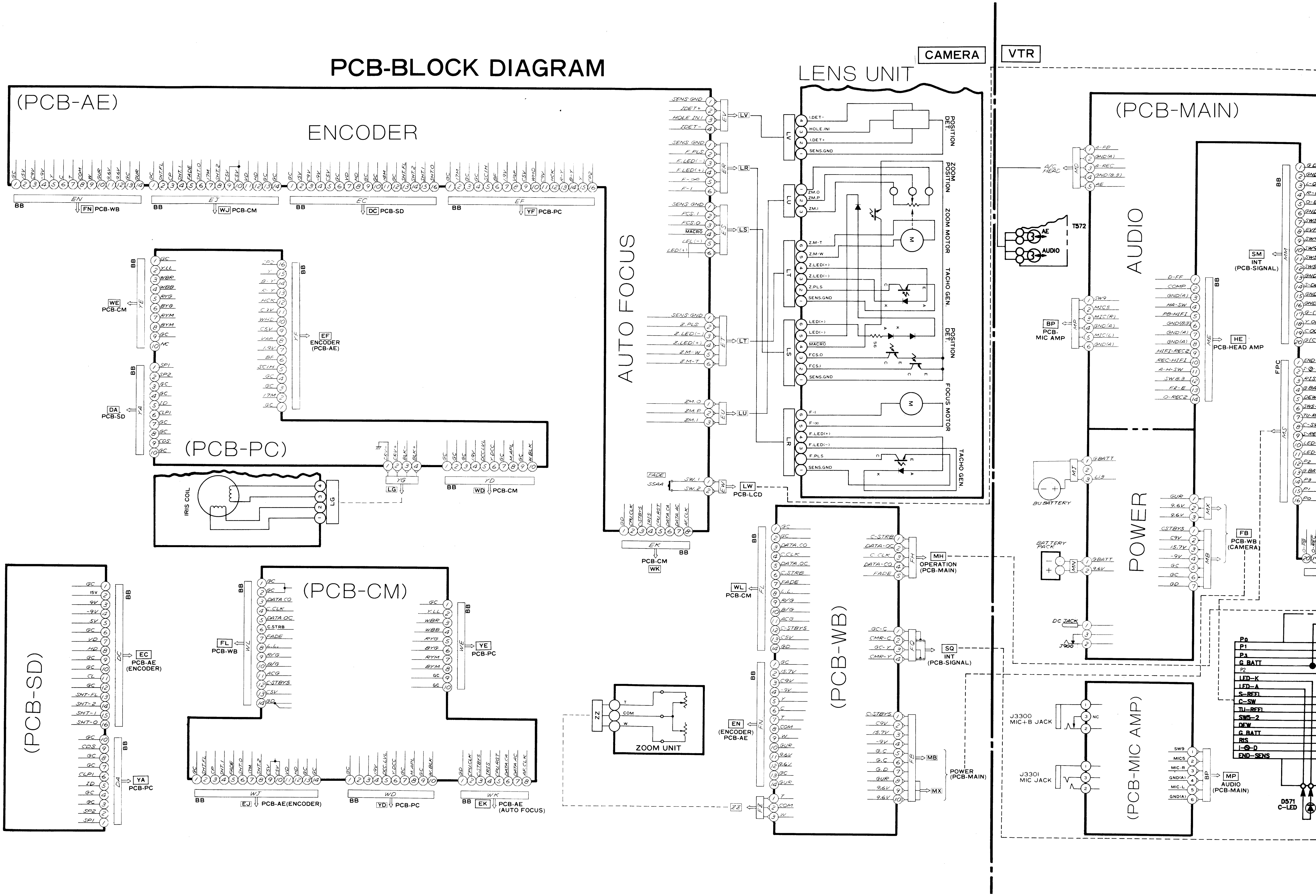
DESCRIPTION	IMPRINTING	PARTS No.	SHAPES
CHIP TRANSISTOR			
2SA1235-F,G	MF, MG	260P802090	
2SA1576-R/2SB1218A-R 2SB1218A-Q	FR, BR BQ	260P859020 260P859070	
2SA1576-R	FR	260P859050	
2SA1577-Q/2SB1219A-R	HQ, DR	260P861020	
2SA1577-Q 2SA1577-R	HQ HR	260P861050 260P861060	
2SC4081-Q/2SD1819A-Q	BQ, ZQ	260P855010	
2SC4081-R/2SD1819A-R 2SC4081-S/2SD1819A-S	BR, ZS BS, ZS	260P855020 260P855030	
2SC4098-P/2SC3936-B	AP, KB	260P854020	
2SC4098-Q/2SC3936-C	AQ, KC	260P854030	
2SD1819A-Q	ZQ	260P855070	
2SD1949-Q/2SD1820A-R	YQ, XR	260P867020	
2SD1949-R	YR	260P867060	
DTA144EU/UN5113	16, 6C	260P856010	
DTC114EK	24	260P808010	
DTC144EU/UN5213	26, 8C	260P857010	
DTC144EU	26	260P857020	
DTA114EU/UN5111	14, 6A	260P858010	
2SB798-DK	DK	260P482010	
2SB1114-ZL	ZL	260P847010	
2SC3736-OK	OK	260P866010	
2SD999-CK	CK	260P865010	
2SK209GR	XG	260P864010	
2SC2873-Y	MY	260P868010	

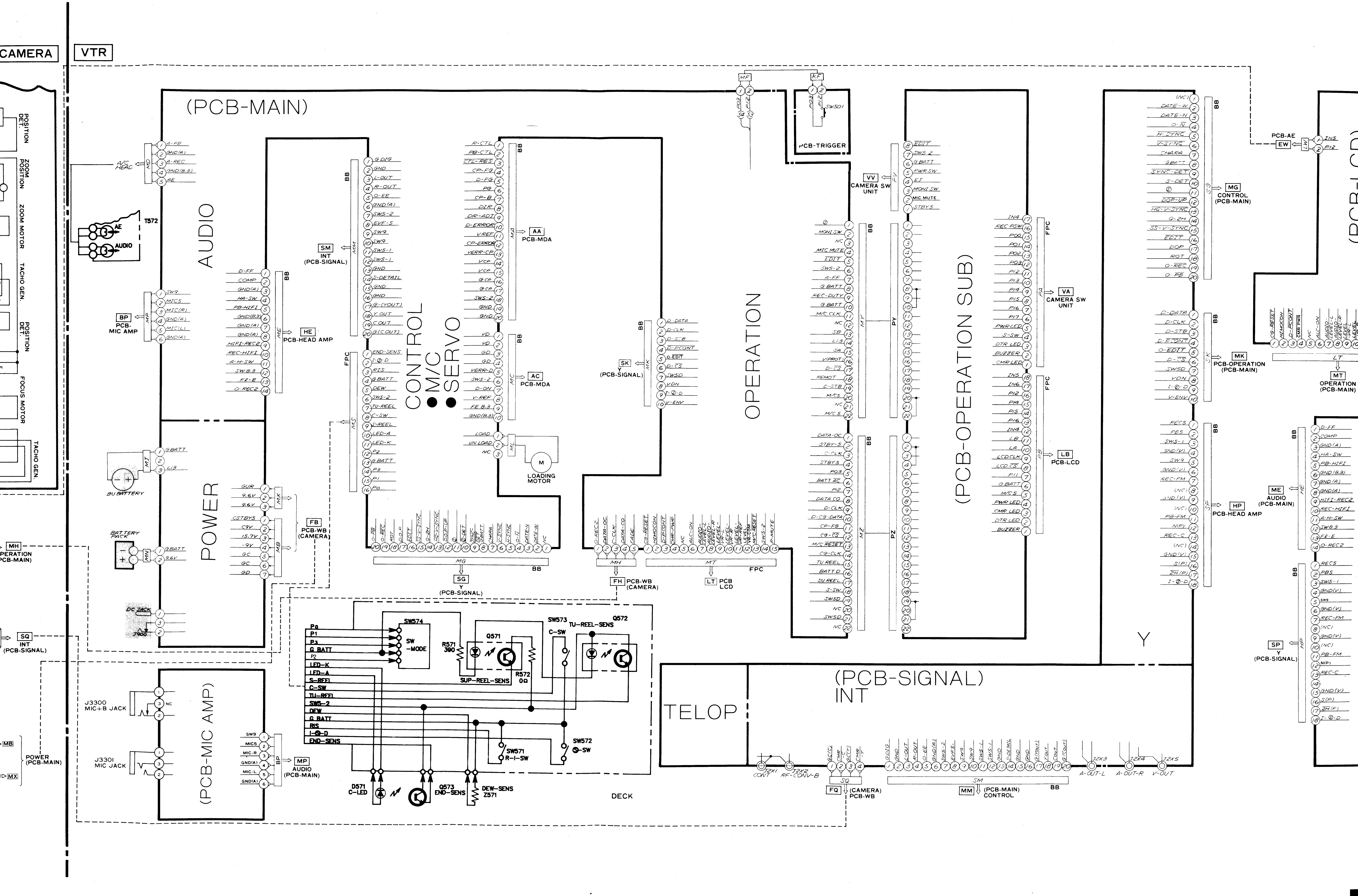
DESCRIPTION	IMPRINTING	PARTS No.	SHAPES
CHIP DIODE			
RD5.1MB1 RD6.8MB1 RD7.5MB2	511 681 752	264P815060 264P816040 264P816050	 IMPRINTING 3 3 2 1 2 1
DAP202U/MA142WA MA142WA	P or MO MO	264P814010 264P814030	DAP202U P MA142WA MO  IMPRINTING 3 3 2 1 2 1
DAN202U/MA142WK	N or MU	264P828010	DAN202U N MA142WK MU  IMPRINTING 3 3 2 1 2 1
DA204U	K	264P830020	 IMPRINTING 3 3 K 2 1 2 1
ND411G-2	411	264P833010	 IMPRINTING 3 4 3 4 411 2 1 2 1
SPB-54V SFPB-64V	B54 B64	264P831010 264P832010	 IMPRINTING
MA141K	MH	264P837010	 IMPRINTING 3 3 1 2 1 2

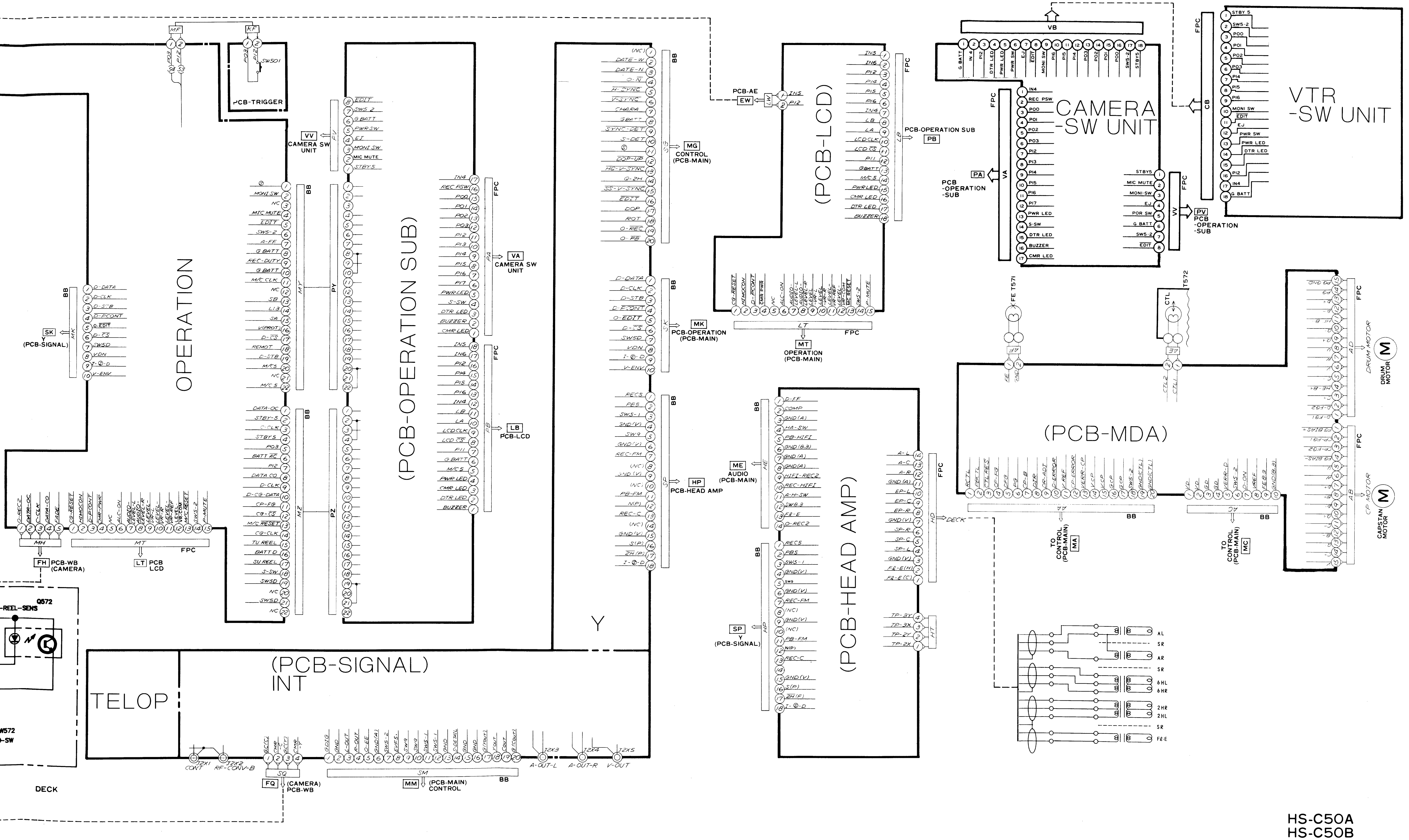
DESCRIPTION	IMPRINTING	PARTS No.	SHAPES	
CHIP IC				
SC14S01F	C3	263P223010		 IMPRINTING 5 4 1 2 3
SC14S66F	C9	263P217010	 5 4 Vcc Gnd 1 2 3	
SC7SU04F	E6	263P220010		 IMPRINTING 5 4 E6 1 2 3
SC7S00F	E1	263P230010		 IMPRINTING 5 4 E1 1 2 3
S-81250HG-RD-T1	RD	272P360010	① V_{SS} ② V_{IN} ③ V_{OUT}	 IMPRINTING LOT No. RD ① ② ③
NJM2406F	1	272P364010		 IMPRINTING LOT No. 5 4 1 1 2 3
PST529C	T529C	272P357010	① IN ② GND ③ OUT	 IMPRINTING ① ③ T529C ②
S-8054ALB-LM-T1	LM	272P362010	① OUT ② V_{DD} ③ V_{SS}	 IMPRINTIHG LOT No. LM ① ② ③
S-81215AG-RK-T1 /RH5RA16AA	RK or 6A	272P359010	① GND ② V_{IN} ③ V_{OUT}	 IMPRINTING LOT No. ① ② ③

DESCRIPTION	IMPRINTING	PARTS No.	SHAPES
CHIP TRANSISTOR			
FMA2/XN1113	A2 or 7L	260P853010	
IMD2/XN4312	D2 or 7T	260P851010	
FMG2/XN1213	G2 or 9L	260P852010	
FMS1	S1	260P843010	
FMW1/XN1501	W1 or 5R	260P844020	
IMX1/XN4501	X1 or 5H	260P845020	
IMZ1/XN4601	Z1 or 5C	260P849020	
IMT1	T1	260P863010	

PCB-BLOCK DIAGRAM


CAMERA
VTR
LENS UNIT
(PCB-AE)
ENCODER
AUTO FOCUS
(PCB-PC)
(PCB-CM)
(PCB-SD)
(PCB-WB)
(PCB-MAIN)
AUDIO
POWER
(PCB-MIC AMP)
ZOOM UNIT
IRIS COIL
POSITION DET.
ZOOM POSITION
ZOOM MOTOR
TACHO GEN.
POSITION DET.
FOCUS MOTOR
TACHO GEN
FN PCB-WB
WJ PCB-CM
DC PCB-SD
YF PCB-PC
WE PCB-CM
DA PCB-SD
EF ENCODER (PCB-AE)
LG
WD PCB-CM
EK PCB-CM
WK
LW PCB-LCD
FL PCB-WB
YE PCB-PC
EC PCB-AE (ENCODER)
YA PCB-PC
EJ PCB-AE(ENCODER)
YD PCB-PC
EK PCB-AE (AUTO FOCUS)
WL PCB-CM
EN (ENCODER) PCB-AE
MH OPERATION (PCB-MAIN)
SQ INT (PCB-SIGNAL)
MB
MX
POWER (PCB-MAIN)
A/C HEAD
T572
AE
AUDIO
BP PCB-MIC AMP
SM INT (PCB-SIGNAL)
HE PCB-HEAD AMP
FB PCB-WB (CAMERA)
BU BATTERY
BATTERY PACK
DC JACK
J900
J3300 MIC+B JACK
J3301 MIC JACK
MP AUDIO (PCB-MAIN)
FPC
P0
P1
P3
G BATT
P2
LED-K
LED-A
S-REFL
C-SW
TU-REFL
SW5-2
DEW
RIS
I-⊗-D
END-SENS
D571 C-LED
BB

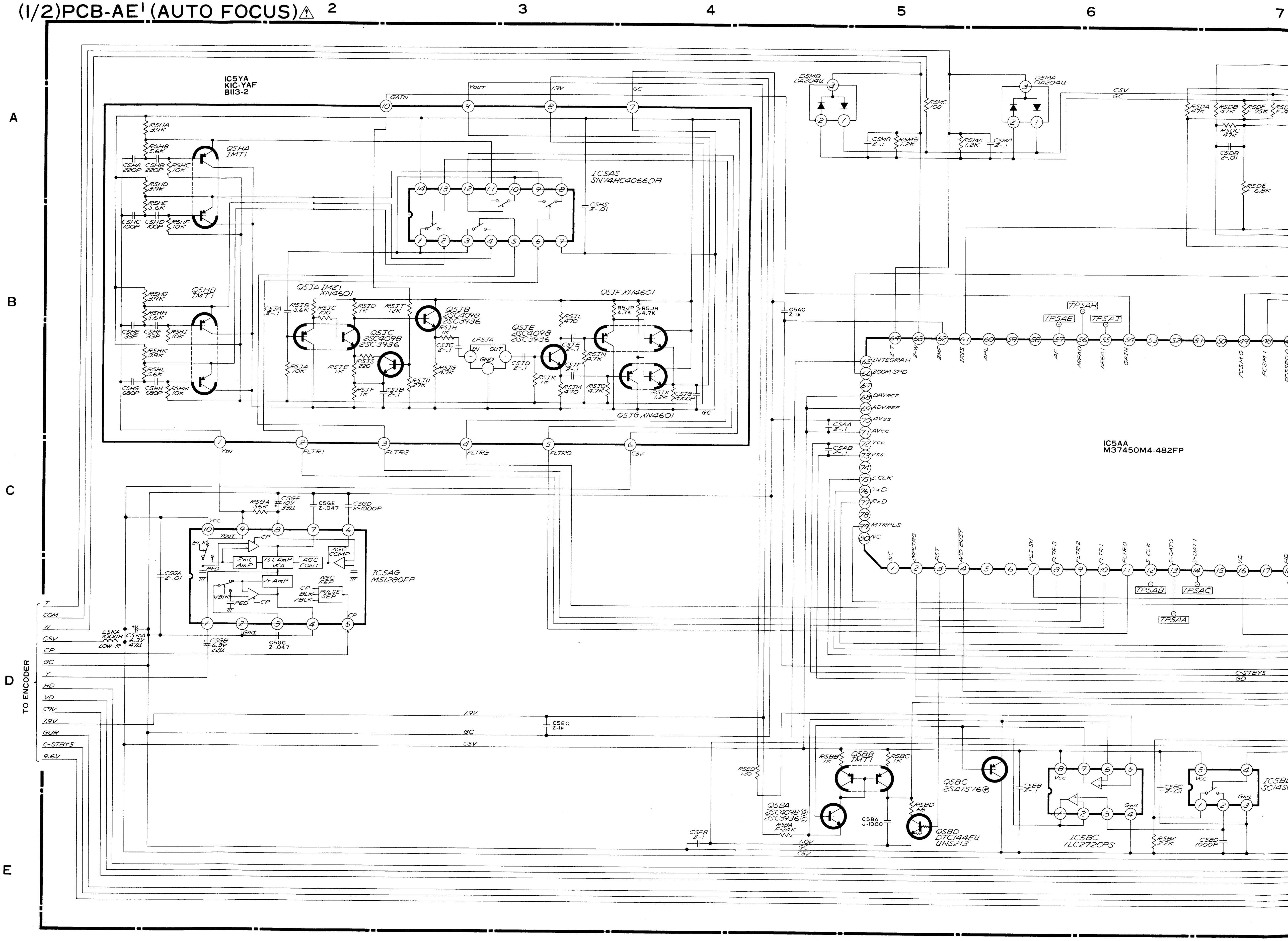

CAMERA
VTR
POSITION DET.
ZOOM POSITION
ZOOM MOTOR
TACHO GEN.
POSITION DET.
FOCUS MOTOR
TACHO GEN.
(PCB-MAIN)
AUDIO
POWER
CONTROL
● M/C
● SERVO
OPERATION
(PCB-OPERATION SUB)
(PCB-SIGNAL)
INT
TELOP
Y
(PCB-MIC AMP)
(PCB-LCD)
A/C HEAD
T572
AE
AUDIO
BP PCB-MIC AMP
HE PCB-HEAD AMP
SM INT (PCB-SIGNAL)
AA PCB-MDA
AC PCB-MDA
SK Y (PCB-SIGNAL)
FB PCB-WB (CAMERA)
SG Y (PCB-SIGNAL)
FH PCB-WB (CAMERA)
LT PCB LCD
MH OPERATION (PCB-MAIN)
SQ INT (PCB-SIGNAL)
MB
MX
POWER (PCB-MAIN)
MP AUDIO (PCB-MAIN)
J3300 MIC+B JACK
J3301 MIC JACK
BU BATTERY
BATTERY PACK
DC JACK
J900
LOADING MOTOR
M
PCB-TRIGGER
SW501
VV CAMERA SW UNIT
VA CAMERA SW UNIT
LB PCB-LCD
MG CONTROL (PCB-MAIN)
MK PCB-OPERATION (PCB-MAIN)
MT OPERATION (PCB-MAIN)
ME AUDIO (PCB-MAIN)
HP PCB-HEAD AMP
SP Y (PCB-SIGNAL)
PCB-AE
EW
FQ (CAMERA) PCB-WB
MM (PCB-MAIN) CONTROL
SW574 SW -MODE
R571 390
Q571
R572 0Ω
SUP-REEL-SENS
SW573 C-SW
TU-REEL-SENS
Q572
SW571 R-I-SW
SW572 ⊖-SW
D571 C-LED
Q573 END-SENS
DEW-SENS Z571
DECK
P0 P1 P3 G BATT P2 LED-K LED-A S-REEL C-SW TU-REEL SWS-2 DEW G BATT RIS I-⊖-D END-SENS
J2X1 CONT
J2X2 RF-CONV-B
J2X3 A-OUT-L
J2X4 A-OUT-R
J2X5 V-OUT
BB
FPC
MD MP MJ MN MX MB ME MM MS MA MC ML MK MY MZ PY PZ PV PA PB SG SK SP HE HP MG MH MT SM SQ LW MF KF LT
A-FB GND(A) A-REC GND(8.3) AE
SW9 MIC5 MIC(R) GND(A) MIC(L) GND(A)
G BATT L13
G BATT 9.6V
D-FF COMP GND(A) HA-SW PB-HIFI GND(8.3) GND(A) GND(A) HIFI-REC2 REC-HIFI A-H-SW SW8.3 F2-E O-REC2
GUR 9.6V 9.6V CSTBYS C9V 15.7V -9V GC GC GD
G DIG GND L-OUT R-OUT O-EE GND(A) SWS-2 EVF-S SW9 SW9 SWS-1 SWS-1 GND S-DETAIL GND GND G-(YOUT) Y OUT C OUT G(COUT)
END-SENS I-⊖-D RIS G BATT DEW SWS-2 TU-REEL C-SW S-REEL LED-A LED-K P2 G BATT P3 P1 P0
R-CTL PB-CTL CTL-RES CP-FG D-FG PG CP-B DIR DR-ADJ D-ERROR VREF CP-ERROR VERR-CP VCP VCP GCP GCP SWS-2 GND GND
VD VD GD GD VERR-D SWS-2 D-ON V-REF FE 8.3 GND(8.3)
LOAD UN LOAD NC
D-DATA D-CLK D-STB D-PCONT O-EDIT D-CS SWSD VDN I-⊖-D V-ENV
P03 P12 S4 S3
P03 P12
EDIT SWS 2 G BATT PWR SW EJ MONI SW MIC MUTE STBYS
MONI SW NC MIC MUTE EDIT SWS-2 A-FF G BATT REC-DUTY G BATT M/C CLK NC SB L13 SA VIPROT D-CS REMOT D-STB M/CS NC M/CS
DATA-OC STBY-S C-CLK STBYS P03 BATT AC P12 DATA CQ D-CLK D-CG-DATA CP-FG CG-CS M/C RESET CG-CLK TU REEL BATT D SU REEL S-SW SWSD NC SWSD NC
IN4 REC PSW P00 P01 P02 P03 P12 P13 P14 P15 P16 P17 PWR LED S-SW DTR LED BUZZER CMR LED
IN5 IN6 P12 P14 P15 P16 IN4 LB LA LCD CLK LCD CS F11 G BATT M/CS PWR LED CMR LED DTR LED BUZZER
(NC) DATE-W DATE-N O-N H-SYNC V-SYNC CHARA G BATT SYNC-DET S-DET ⊖ DOP-UP HG-V-SYNC G-2H SS-V-SYNC EDIT DOP ROT O-REC O-PE
D-DATA D-CLK D-STB D-PCONT O-EDIT D-CS SWSD VDN I-⊖-D V-ENV
RECS PES SWS-1 GND(V) SW9 GND(V) REC-FM (NC) GND(V) (NC) PB-FM N(P) REC-C (NC) GND(V) S(P) 2H(P) I-⊖-D
D-FF COMP GND(A) HA-SW PB-HIFI GND(8.3) GND(A) GND(A) HIFI-REC2 REC-HIFI A-H-SW SW8.3 F2-E O-REC2
REC5 PBS SWS-1 GND(V) SW9 GND(V) REC-FM (NC) GND(V) (NC) PB-FM N(P) REC-C GND(V) S(P) 2H(P) I-⊖-D
CG-RESET HIMOCON D-PCONT CMR PWR NC ALC-ON AUDIO-LEVEL-L AUDIO-LEVEL-R
INS P12
D-REC2 DATA-OC C-CLK DATA-CQ LADE
CG-RESET HIMOCON D-PCONT CMR PWR NC ALC-ON AUDIO-LEVEL-L AUDIO-LEVEL-R LEVEL VR-REF VR-COM M/C RESET SWS-2 P-MUTE
REC(S) MR SC(Y) CMR-Y
SW9 MIC5 MIC-R GND(A) MIC-L GND(A)
NC

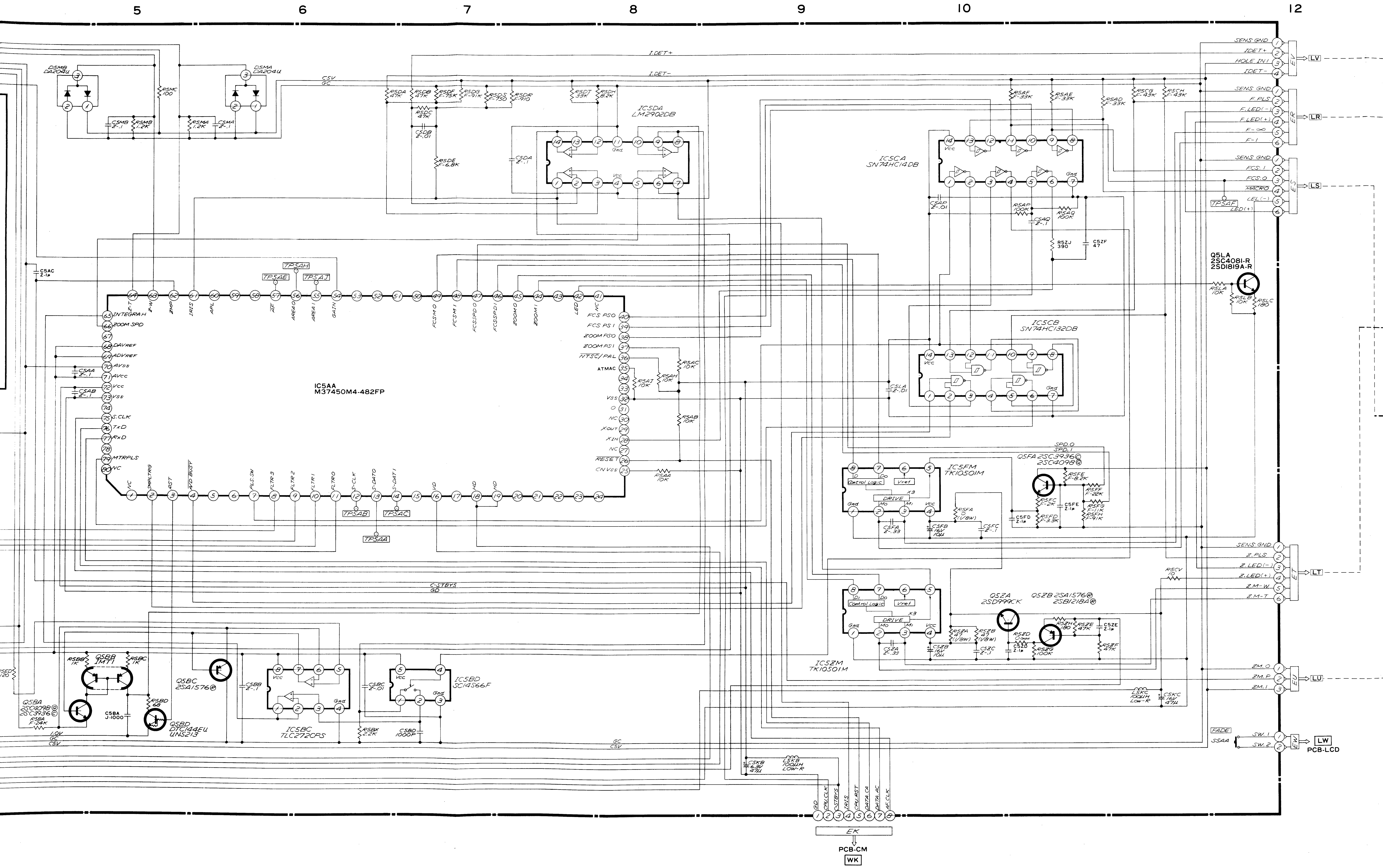


OPERATION
(PCB-OPERATION SUB)
(PCB-LCD)
CAMERA -SW UNIT
VTR -SW UNIT
(PCB-MDA)
(PCB-HEAD AMP)
(PCB-SIGNAL) INT
TELOP
Y
DECK
PCB-TRIGGER
SW501
MF
KF
VV CAMERA SW UNIT
MG CONTROL (PCB-MAIN)
MK PCB-OPERATION (PCB-MAIN)
HP PCB-HEAD AMP
ME AUDIO (PCB-MAIN)
SP Y (PCB-SIGNAL)
SK Y (PCB-SIGNAL)
FH PCB-WB (CAMERA)
LT PCB LCD
MT OPERATION (PCB-MAIN)
PCB-AE EW
PB PCB-OPERATION SUB
PA PCB -OPERATION -SUB
PV PCB -OPERATION -SUB
VA CAMERA SW UNIT
LB PCB-LCD
FQ (CAMERA) PCB-WB
MM (PCB-MAIN) CONTROL
TO CONTROL (PCB-MAIN) MA
TO CONTROL (PCB-MAIN) MC
VB
CB
FPC
BB
FE T571
CTL T572
DRUM MOTOR
CAPSTAN MOTOR
M
Q572
-REEL-SENS
SW572
CONT
RF-CONV-B
A-OUT-L
A-OUT-R
V-OUT
AL
SR
AR
6HL
6HR
2HR
2HL
FE·E

HS-C50A
HS-C50B
HS-C50E(1/10)

(1/2)PCB-AE1 (AUTO FOCUS)⚠


2
3
4
5
6
7
A
B
C
D
E
IC5YA
KIC-YAF
B113-2
IC5AS
SN74HC4066DB
IC5AG
M51280FP
IC5AA
M37450M4-482FP
IC5BC
TLC272CPS
Q5HA IMT1
Q5HB IMT1
Q5JA IMZ1 XN4601
Q5JB 2SC4098 2SC3936
Q5JC 2SC4098 2SC3936
Q5JE 2SC4098 2SC3936
Q5JF XN4601
Q5JG XN4601
LF5JA
Q5BA 2SC4098 2SC3936
Q5BB IMT1
Q5BC 2SA1576
Q5BD DTC144EU UN5213
D5MB DA204U
D5MA DA204U
GAIN
YOUT
1.9V
GC
YIN
FLTR1
FLTR2
FLTR3
FLTR0
CSV
TPSAE
TPSAH
TPSAJ
TPSAB
TPSAC
TPSAA
INTEGRA H
ZOOM SPD
DAVREF
ADVREF
AVSS
AVCC
VCC
VSS
S.CLK
TXD
RXD
MTRPLS
VC
TO ENCODER
T
COM
W
CSV
CP
GC
Y
HD
VD
C9V
1.9V
GUR
C-STBYS
9.6V
L5KA 100μH LOW-R
C5KA 6.3V 47μ
C5GB 6.3V 22μ
C5GC Z-.047
C5GA Z-.01
R5GA 56K
C5GF 10V 39μ
C5GE Z-.047
C5GD K-1000P
2nd AmP
1st AmP VCA
AGC CONT
AGC COMP
Vr AmP
PULSE SEP
AGC REP
C5EC Z-1μ
C5AC Z-1μ
C5AA Z-.1
C5AB Z-.1
C5HS Z-.01
R5MC 100
R5MB 1.2K
C5MB Z-.1
R5MA 1.2K
C5MA Z-.1
R5DA 47K
R5DB 47K
R5DF F-75K
R5DC 47K
C5DB Z-.01
R5DE F-6.8K
R5ED 120
C5EB Z-1
R5BA F-24K
R5BB 1K
R5BC 1K
R5BD 68
C5BA J-1000
C5BB Z-.1
C5BC Z-.01
R5BX 2.2K
C5BD 1000P
C-STBYS
GD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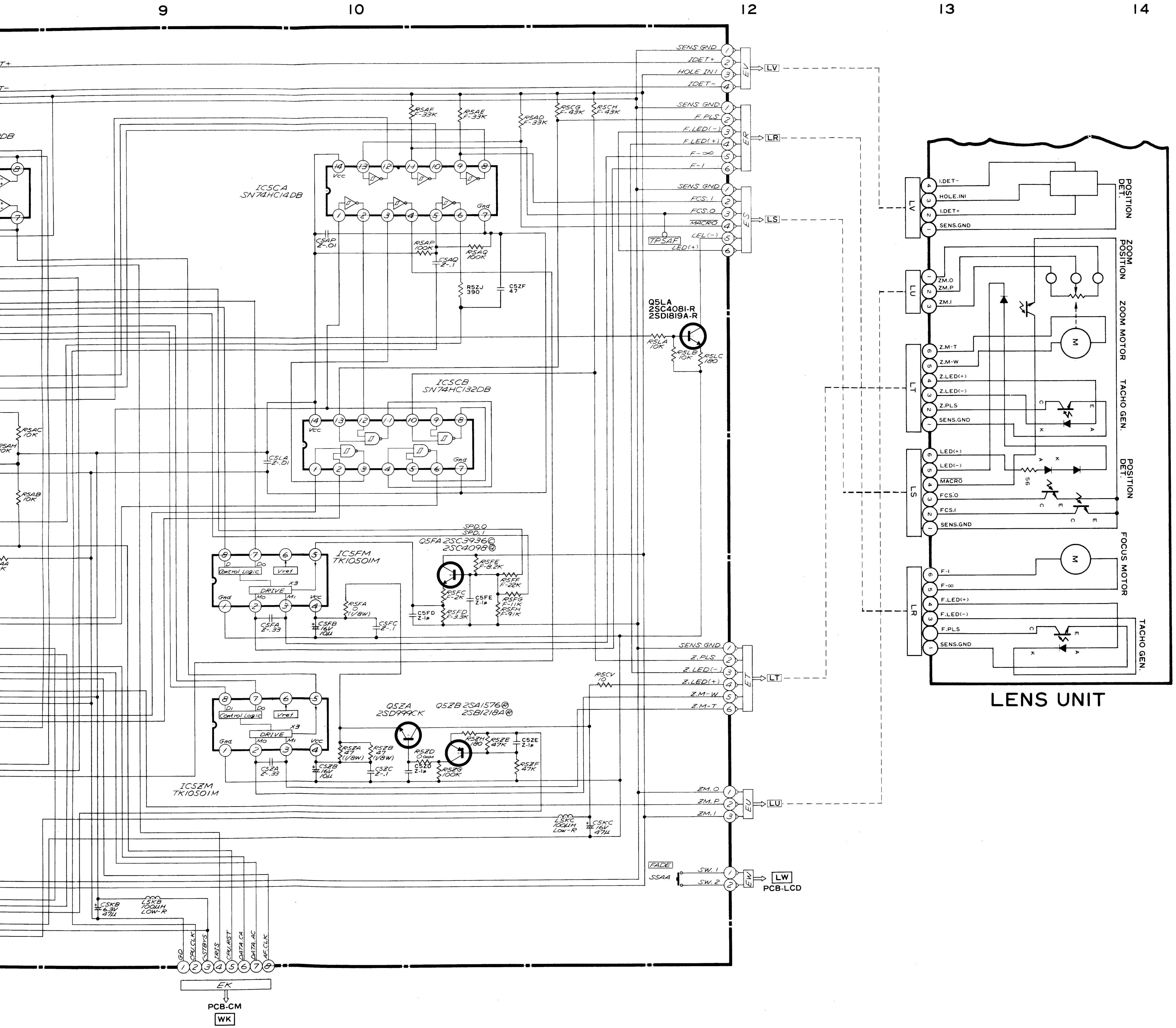
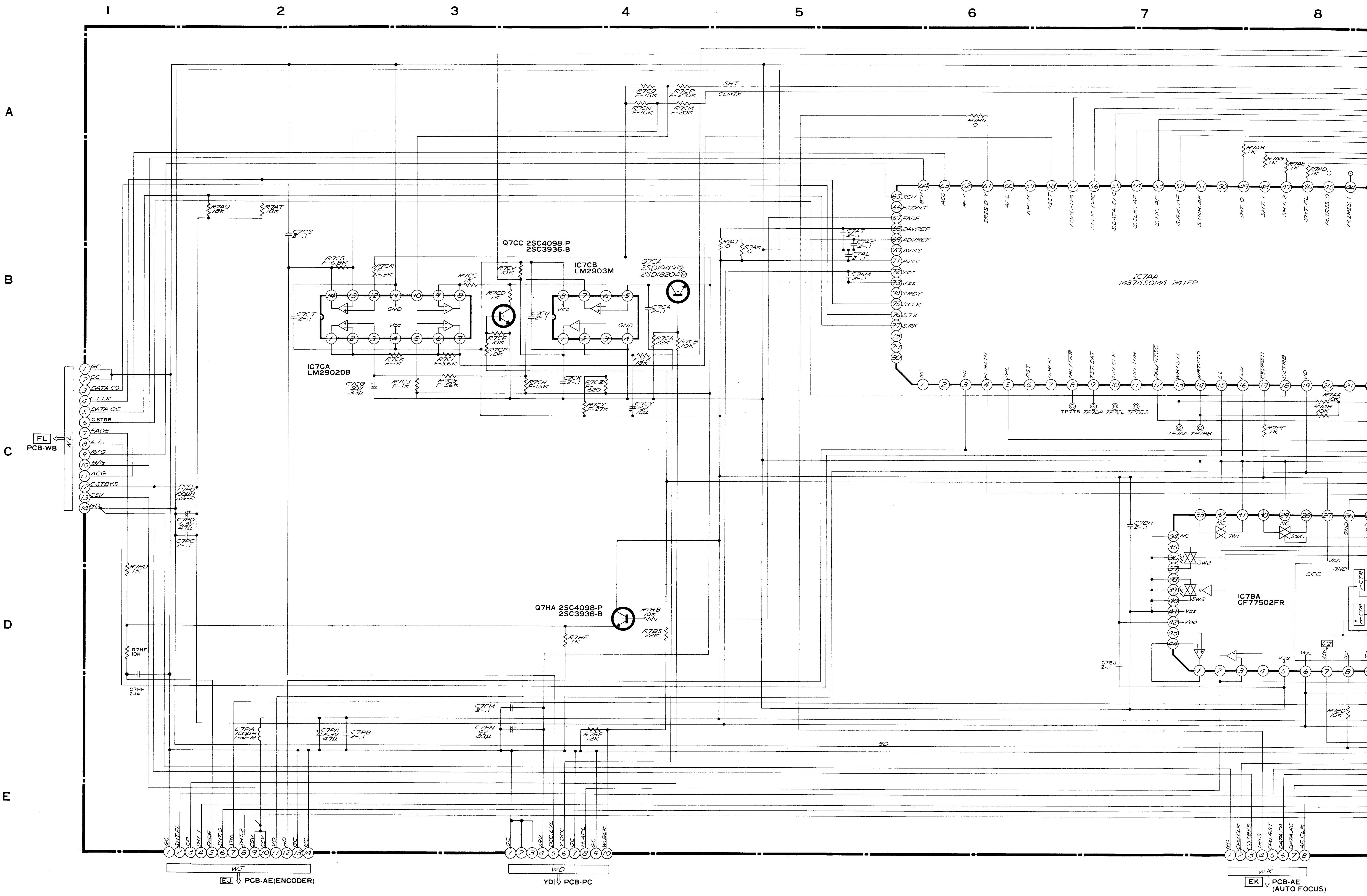
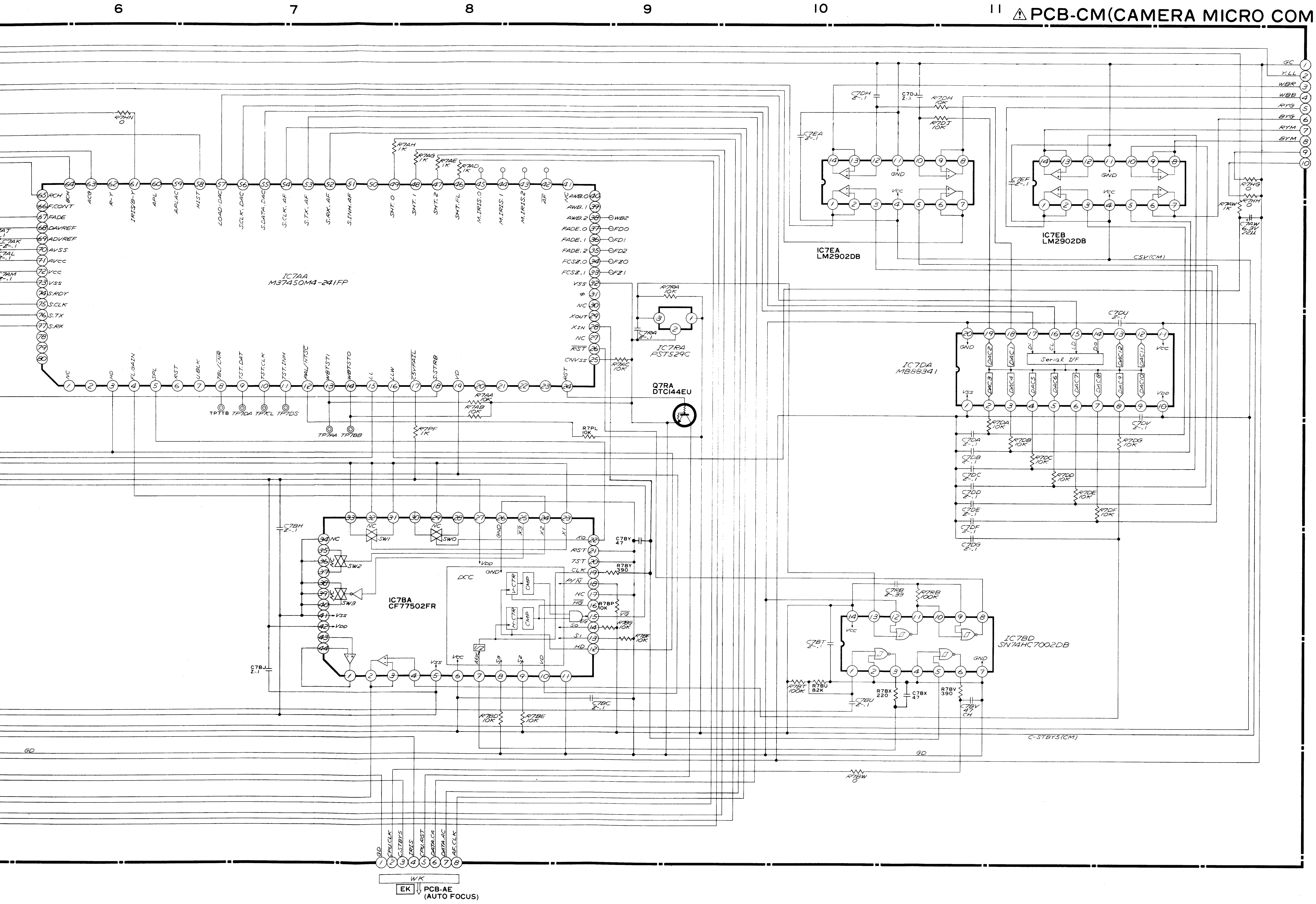
6
7
8
9
10
12
D5MB DA204U
R5MC 100
C5MB Z-.1
R5MB 1.2K
D5MA DA204U
R5MA 1.2K
C5MA Z-.1
CSV
GC
I.DET+
I.DET-
R5DA 47K
R5DB 47K
R5DF F-75K
R5DG F-91K
R5DS F-750
R5DR F-910
R5DC 47K
C5DB Z-.01
R5DE F-6.8K
R5DJ 33K
R5DH 8.2K
IC5DA LM2902DB
C5DA Z-.1
R5AF F-33K
R5AE F-33K
R5AD F-33K
R5CG F-43K
R5CH F-43K
IC5CA SN74HC14DB
C5AP Z-.01
R5AP 100K
R5AQ 100K
C5AQ Z-.1
R5ZJ 390
C5ZF 47
SENS GND
IDET+
HOLE IN.1
IDET-
EV
LV
F.PLS
F.LED(-)
F.LED(+)
F-∞
F-1
ER
LR
FCS.1
FCS.0
MACRO
LEL(-)
LED(+)
TP5AF
ES
LS
Q5LA 2SC4081-R 2SD1819A-R
R5LA 10K
R5LB 10K
R5LC 180
C5AC Z-1μ
TP5AH
TP5AE
TP5AJ
IC5AA M37450M4-482FP
INTEGRAH
ZOOM SPD
DAVREF
ADVREF
AVSS
AVCC
VCC
VSS
S.CLK
TXD
RXD
M.TRPLS
NC
C5AA Z-.1
C5AB Z-.1
Z-T
Z-W
ZMP
IRIS
APL
AF
AREA0
AREA1
GAIN
FCSM0
FCSM1
FCSPD0
FCSPD1
ZOOM0
ZOOM1
LED
FCS PS0
FCS PS1
ZOOM PS0
ZOOM PS1
NTSC/PAL
ATMAC
XOUT
XIN
RESET
CNVSS
R5AC 10K
R5AJ 10K
R5AH 10K
R5AB 10K
R5AA 10K
DMPLTRG
RST
A/D BUSY
PLS.SW
FLTR3
FLTR2
FLTR1
FLTR0
S-CLK
S-DAT0
S-DAT1
VD
HD
TP5AB
TP5AC
TP5AA
IC5CB SN74HC132DB
C5LA Z-.01
IC5FM TK10501M
Control Logic
Vref
DRIVE
X3
SPD.0
SPD.1
Q5FA 2SC3936® 2SC4098®
R5FE F-8.2K
R5FC F-2K
C5FE Z-1μ
R5FF F-28K
R5FG F-11K
R5FH F-91K
R5FD F-3.3K
C5FD Z-1μ
R5FA 0 (1/8W)
C5FA Z-.33
C5FB 16V 10μ
C5FC Z-.1
Z.PLS
Z.LED(-)
Z.LED(+)
Z.M-W
Z.M-T
ET
LT
R5CV 10
C-STBYS
GD
Q5ZA 2SD999CK
Q5ZB 2SA1576® 2SB1218A®
R5ZA 47 (1/8W)
R5ZB 47 (1/8W)
C5ZA Z-.33
C5ZB 16V 10μ
C5ZC Z-.1
R5ZD 0 OHM
C5ZD Z-1μ
R5ZG 100K
R5ZH 180
R5ZE 47K
C5ZE Z-1μ
R5ZF 47K
IC5ZM TK10501M
ZM.0
ZM.P
ZM.1
EU
LU
L5KC 100μH LOW-R
C5KC 16V 47μ
FADE
S5AA
SW.1
SW.2
EW
LW
PCB-LCD
R5BB 1K
Q5BB IMT1
R5BC 1K
Q5BA 2SC4098® 2SC3936®
R5BA F-24K
C5BA J-1000
R5BD 68
Q5BD DTC144EU UN5213
1.0V
Q5BC 2SA1576®
C5BB Z-.1
IC5BC TLC272CPS
C5BC Z-.01
IC5BD SC14S66F
R5BX 2.2K
C5BD 1000P
R5ED 120
C5KB 6.3V 47μ
L5KB 100μH LOW-R
CPU.CLK
STBYS
IRIS
CPU.RST
DATA CA
DATA AC
AF.CLK
EK
PCB-CM
WK


9
10
12
13
14
IC5CA
SN74HC14DB
IC5CB
SN74HC132DB
IC5FM
TK10501M
IC5ZM
TK10501M
Q5LA
2SC4081-R
2SD1819A-R
Q5FA 2SC3936© 2SC4098©
Q5ZA
2SD999CK
Q5ZB 2SA1576® 2SB1218A®
R5AF F-33K
R5AE F-33K
R5AD F-33K
R5CG F-43K
R5CH F-43K
C5AP Z-.01
R5AP 100K
C5AQ Z-.1
R5AQ 100K
R5ZJ 390
C5ZF 47
R5LA 10K
R5LB 10K
R5LC 180
C5LA Z-.01
R5AC 10K
R5AB 10K
Control Logic
Vref
DRIVE
Vcc
Gnd
SPD.0
SPD.1
R5FE F-8.2K
R5FF F-22K
R5FC F-2K
C5FE Z-.1μ
R5FG F-11K
R5FH F-91K
C5FD Z-.1μ
R5FD F-3.3K
R5FA 0 (1/8W)
C5FC Z-.1
C5FA Z-.33
C5FB 16V 10μ
R5CV 10
R5ZA 47 (1/8W)
R5ZB 47 (1/8W)
R5ZD 0ohm
C5ZD Z-.1μ
R5ZH 180
R5ZE 47K
C5ZE Z-.1μ
R5ZG 100K
R5ZF 47K
C5ZC Z-.1
C5ZA Z-.33
C5ZB 16V 10μ
L5KC 100μH Low-R
C5KC 16V 47μ
L5KB 100μH LOW-R
C5KB 6.3V 47μ
TP5AF
FADE
S5AA
SENS GND
IDET+
HOLE IN.I
IDET-
EV
LV
F.PLS
F.LED(-)
F.LED(+)
F-∞
F-I
ER
LR
FCS.I
FCS.O
MACRO
LED(-)
LED(+)
ES
LS
Z.PLS
Z.LED(-)
Z.LED(+)
Z.M-W
Z.M-T
ET
LT
ZM.O
ZM.P
ZM.I
EU
LU
SW.1
SW.2
EW
LW
PCB-LCD
GD
CPU.CLK
STB1-5
IRIS
CPU.RST
DATA CA
DATA AC
AF.CLK
EK
PCB-CM
WK
I.DET-
HOLE.INI
I.DET+
SENS.GND
POSITION DET.
ZOOM POSITION
ZOOM MOTOR
TACHO GEN.
LED(+)
LED(-)
FCS.O
FCS.I
FOCUS MOTOR
F-I
F-∞
F.LED(+)
F.LED(-)
F.PLS
M
C
E
K
A
56
LENS UNIT


1
2
3
4
5
6
7
8
A
B
C
D
E
FL
PCB-WB
WL
GC
GC
DATA CO
C.CLK
DATA OC
C.STRB
FADE
L.L.
R/G
B/G
ACG
C.STBYS
CSV
GD
R7AQ 18K
R7AT 18K
C7CS Z-.1
R7CQ F-15K
R7CP F-270K
R7CN F-10K
R7CM F-20K
SHT
CLMIX
R7HN 0
Q7CC 2SC4098-P 2SC3936-B
IC7CB LM2903M
Q7CA 2SD1949 2SD1820A
IC7CA LM2902DB
R7CS F-6.8K
R7CR F-3.3K
R7CC 1K
R7CV 10K
R7CD 1K
R7CE 10K
R7CF 10K
C7CT Z-.1
C7CU Z-.1
C7CA Z-.1
R7CA 22K
R7CB 10K
R7CK F-1K
R7CL F-5.6K
R7CJ F-1K
R7CG F-56K
C7CG 50V 3.3µ
R7CH F-15K
C7CX Z-.1
R7CZ F-620
R7CY F-27K
C7CY 16V 10µ
R7CX 18K
GND
Vcc
R7AJ 0
R7AK 0
C7AT Z-.1
C7AK Z-.1
C7AL Z-.1
C7AM Z-.1
IC7AA M37450M4-241FP
65 RCH
66 F.CONT
67 FADE
68 DAVREF
69 ADVREF
70 AVSS
71 AVcc
72 Vcc
73 Vss
74 S.RDY
75 S.CLK
76 S.TX
77 S.RX
78
79
80
64 BCH
63 ACG
62 R-Y
61 IRIS(B-Y)
60 APL
59 APLAC
58 HIST
57 LOAD.DAC
56 S.CLK.DAC
55 S.DATA.DAC
54 S.CLK.AF
53 S.TX.AF
52 S.RX.AF
51 S.INH.AF
50
49 SHT.0
48 SHT.1
47 SHT.2
46 SHT.FL
45 M.IRIS.0
44 M.IRIS.1
R7AH 1K
R7AG 1K
R7AE 1K
R7AD 1K
1 NC
2
3 HD
4 FL.GAIN
5 SPL
6 RST
7 V.BLK
8 TEL/CLR
9 TST.DAT
10 TST.CLK
11 TST.INH
12 PAL/NTSC
13 WBTST1
14 WBTST0
15 LL
16 LLW
17 CSV.FAIL
18 S.STRB
19 VD
20
21
R7AA 10K
R7AB 10K
TP7TB
TP7DA
TP7CL
TP7DS
TP7AA
TP7BB
R7PF 1K
C7BH Z-.1
C7BJ Z-.1
IC7BA CF77502FR
DCC
NC
SW1
SWO
SW2
SW3
Vss
VDD
GND
H.CTR
V.CTR
V/2
R7BD 10K
L7PO 100µH Low-R
C7PD 6.3V 47µ
C7PC Z-.1
R7HD 1K
R7HF 10K
C7HF Z-1µ
Q7HA 2SC4098-P 2SC3936-B
R7HB 10K
R7BS 22K
R7HE 1K
C7FM Z-.1
C7FN 4V 33µ
R7BR 12K
L7PA 100µH Low-R
C7PA 6.3V 47µ
C7PB Z-.1
GD
GC
SHT.FL
CP
SHT.1
FADE
SHT.0
17M
SHT.2
CSV
VD
HD
GC
GC
WJ
EJ
PCB-AE(ENCODER)
GC
9V
PCC.LVL
Y.DCC
GC
M.APL
GC
W.BLK
WD
YD
PCB-PC
GD
CPU.CLK
C.STBYS
IRIS
CPU.RST
DATA.CA
AF.CLK
WK
EK
PCB-AE (AUTO FOCUS)

⚠PCB-CM(CAMERA MICRO COMPUTOR)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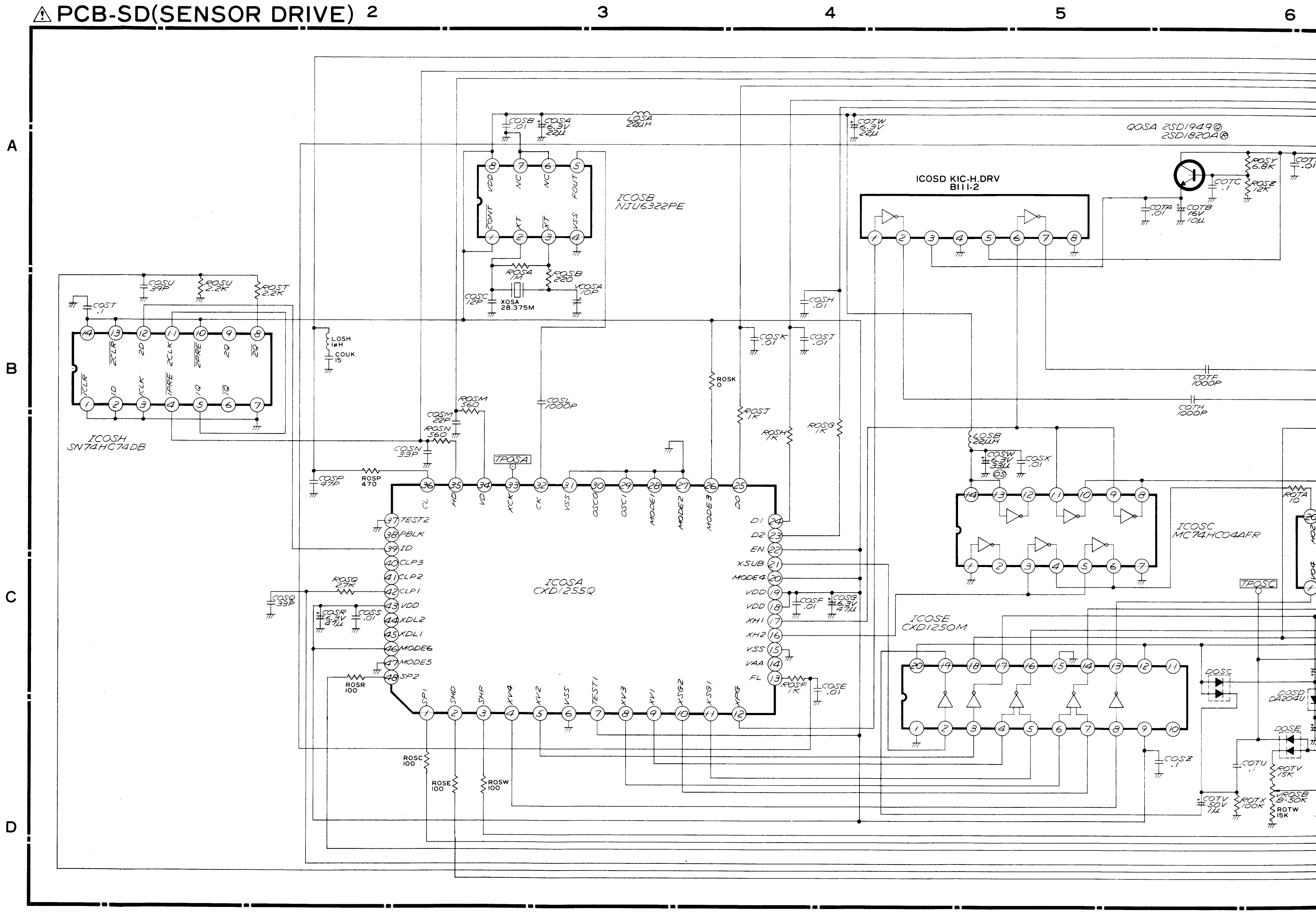
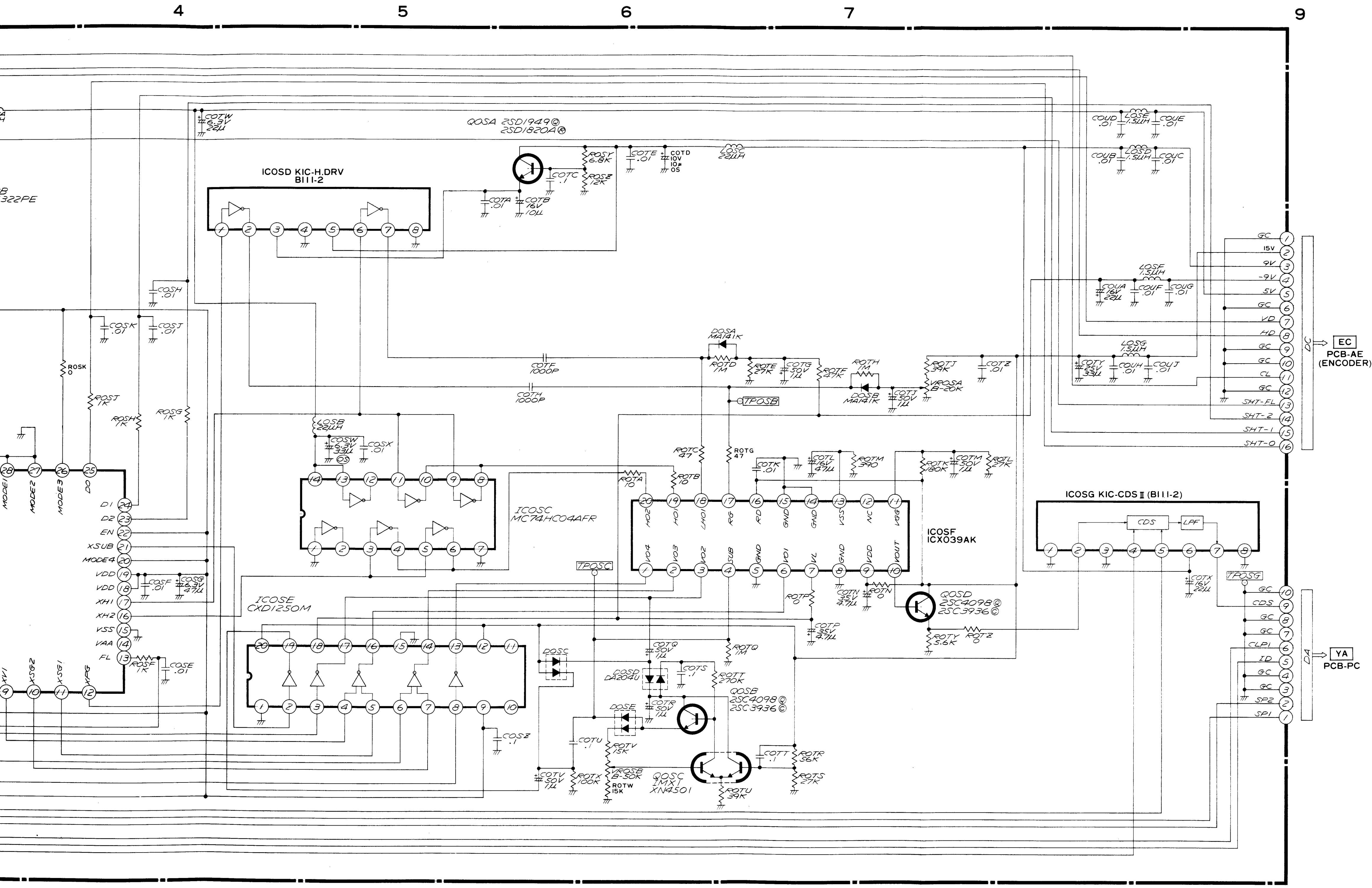
7
8
9
10
11
IC7AA
M37450M4-241FP
IC7RA
FST529C
Q7RA
DTC144EU
IC7EA
LM2902DB
IC7EB
LM2902DB
IC7DA
MB88341
Serial I/F
IC7BA
CF77502FR
IC7BD
SN74HC7002DB
DCC
SW0
SW1
SW2
SW3
GC
Y.LL
WBR
WBB
RYG
BYG
RYM
BYM
WE
YE
PCB-PC
WK
EK
PCB-AE
(AUTO FOCUS)
GD
CPU.CLK
C.STBYS
IRIS
CPU.RST
DATA.CA
DATA.AC
AF.CLK
C5V(CM)
C-STBY5(CM)
TP7TB
TP7DA
TP7CL
TP7DS
TP7AA
TP7BB
RCH
F.CONT
FADE
DAVREF
ADVREF
AVSS
AVcc
Vcc
VSS
S.RDY
S.CLK
S.TX
S.RX
BCH
ACB
R-Y
IRIS/B-Y
APL
APLAC
HIST
LOAD.DAC
SCLK.DAC
S.DATA.DAC
S.CLK.AF
S.TX.AF
S.RX.AF
S.INH.AF
SHT.0
SHT.1
SHT.2
SHT.FL
M.IRIS.0
M.IRIS.1
M.IRIS.2
AF
AWB.0
AWB.1
AWB.2
FADE.0
FADE.1
FADE.2
FCSZ.0
FCSZ.1
XOUT
XIN
RST
CNVSS
WB2
FD0
FD1
FD2
FZ0
FZ1
FL.GAIN
SPL
UBLK
TBL/LNR
TST.DAT
TST.CLK
TST.INH
PAL/NTSC
WBTST1
WBTST0
LL
LLW
C5V/AIL
S.STRB
VD
R7HN 0
R7AH 1K
R7AG 1K
R7AE 1K
R7AD 1K
R7RA 10K
C7RA Z-.1
R7AC 10K
R7AA 10K
R7AB 10K
R7PF 1K
R7PL 10K
C7DH Z-.1
C7DJ Z-.1
R7DH 10K
R7DJ 10K
C7EA Z-.1
C7EF Z-.1
R7HG 0
R7HH 0
R7AW 1K
C7AW 6.3V 22μ
C7DU Z-.1
C7DV Z-.1
R7DA 10K
R7DB 10K
R7DC 10K
R7DD 10K
R7DE 10K
R7DF 10K
R7DG 10K
C7DA Z-.1
C7DB Z-.1
C7DC Z-.1
C7DD Z-.1
C7DE Z-.1
C7DF Z-.1
C7DG Z-.1
C7BH Z-.1
C7BJ Z-.1
C7BY 47
R7BY 390
R7BP 10K
R7BG 10K
R7BE 10K
R7BD 10K
C7BC Z-.1
C7RB Z-.33
R7RB 100K
C7BT Z-.1
R7BT 100K
R7BU 82K
R7BX 220
C7BX 47
C7BU Z-.1
R7BV 390
C7BV 47 CH
R7BW 0
DAC1
DAC2
DAC3
DAC4
DAC5
DAC6
DAC7
DAC8
DAC9
DAC10
DAC11
DAC12
GND
Vcc
VDD
VSS
CL
LD
DO
DI
X0
X1
X2
X3
TST
CLK
P/N
NC
HG
VG
S0
S1
HD
V-CTR
H-CTR
CMP
EG
AFC

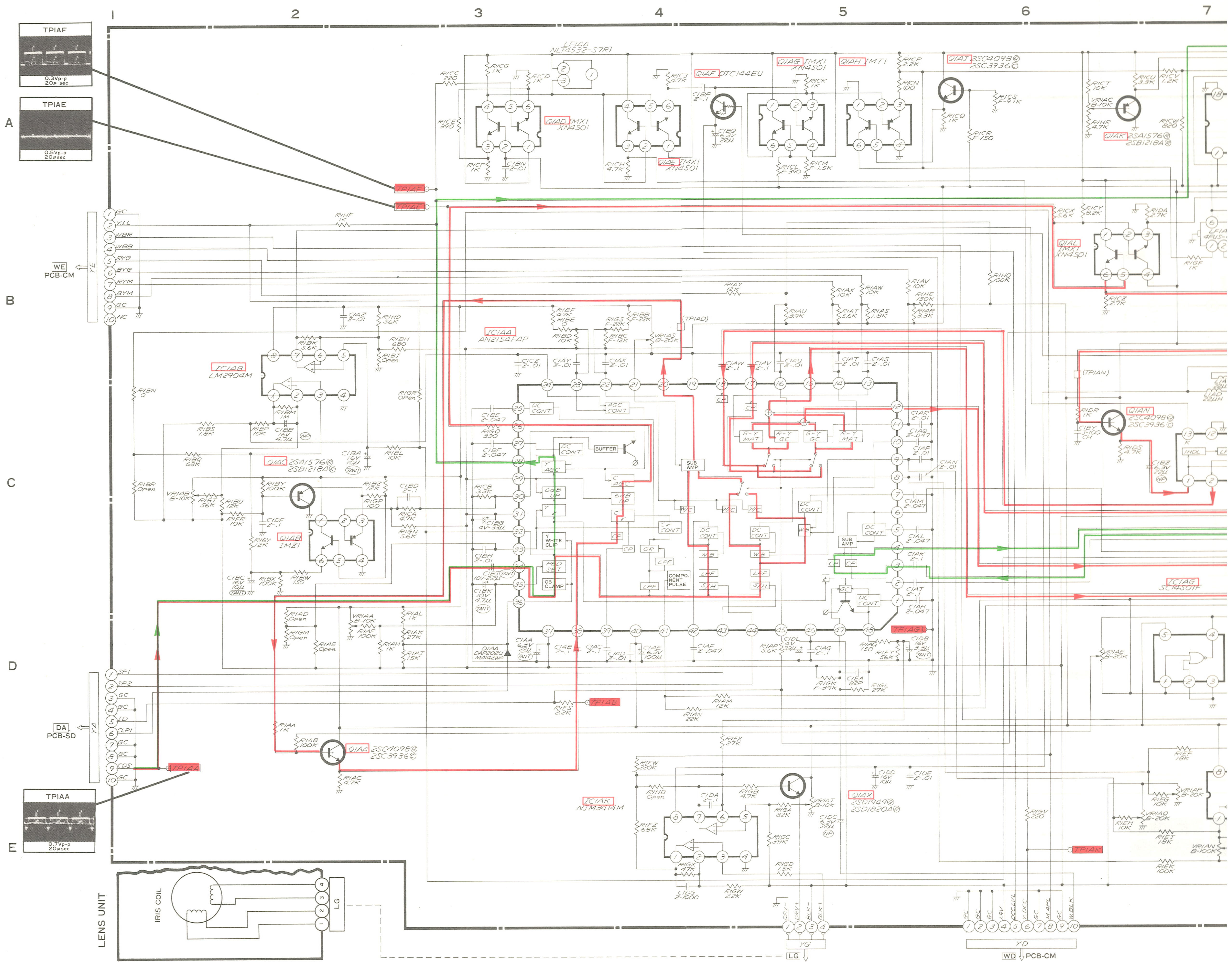
HS-C50A
HS-C50B
HS-C50E(2/10)

⚠ PCB-SD(SENSOR DRIVE)

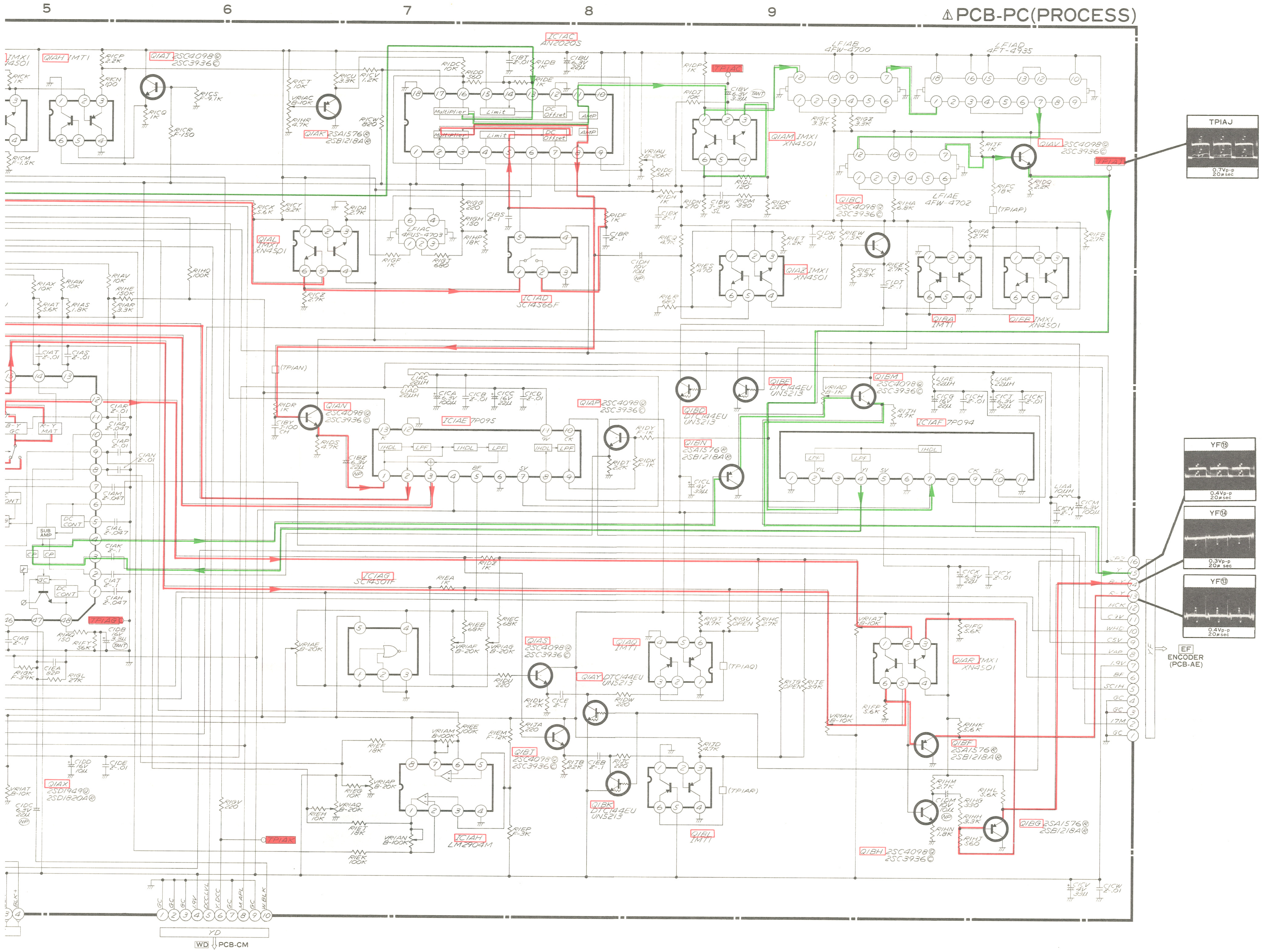


2
3
4
5
6
A
B
C
D
ICOSH SN74HC74DB
COST .1
COSU 39P
ROSU 2.2K
ROST 2.2K
2CLR
2D
2CLK
2PRE
2Q
1CLR
1D
1CLK
1PRE
1Q
LOSH 1μH
COUK 15
ICOSB NJU6322PE
VDD
NC
FOUT
CONT
XT
VSS
COSB .01
COSA 6.3V 22μ
LOSA 22μH
ROSA 1M
ROSB 220
COSC 12P
XOSA 28.375M
COSA 10P
COTW 6.3V 22μ
ICOSD KIC-H,DRV B111-2
QOSA 2SD1949Ⓒ 2SD1820AⒷ
ROSY 6.8K
ROSZ 12K
COTC .1
COTA .01
COTB 16V 10μ
COSH .01
COSK .01
COSJ .01
ROSK 0
COSL 1000P
ROSM 560
COSM 22P
ROSN 560
COSN 33P
COSP 47P
ROSP 470
TPOSA
ROSJ 1K
ROSH 1K
ROSG 1K
COTF 1000P
COTH 1000P
LOSB 22μH
COSW 6.3V 33μ
COSX .01
ICOSA CXD1255Q
CL
HD
VD
XCK
CK
VSS
OSCO
OSCI
MODE1
MODE2
MODE3
DO
TEST2
PBLK
ID
CLP3
CLP2
CLP1
VDD
XDL2
XDL1
MODE6
MODE5
SP2
D1
D2
EN
XSUB
MODE4
VDD
VDD
XH1
XH2
VSS
VAA
FL
SP1
SHD
SHP
XV4
XV2
VSS
TEST1
XV3
XV1
XSG2
XSG1
XPG
ROSQ 2.7K
COSQ 33P
COSR 6.3V 47μ
COSS .01
ROSR 100
COSF .01
COSG 6.3V 47μ
ROSF 1K
COSE .01
ROSC 100
ROSE 100
ROSW 100
ICOSC MC74HC04AFR
ROTA 10
TPOSC
ICOSE CXD1250M
DOSC
COSD DA204U
DOSE
COSZ .1
COTU .1
COTV 50V 1μ
ROTX 100K
ROTV 15K
VROSB 8-30K
ROTW 15K


4
5
6
7
9
COTW
6.3V
22µ
QOSA 2SD1949Ⓠ
2SD1820AⓇ
ICOSD KIC-H.DRV
B111-2
ROSY
6.8K
ROSZ
12K
COTC
.1
COTA
.01
COTB
16V
10µ
COTE
.01
COTD
10V
10µ
OS
LOSC
22µH
COUD
.01
LOSE
1.5µH
COUE
.01
COUB
.01
LOSD
1.5µH
COUC
.01
LOSF
1.5µH
COUA
16V
22µ
COUF
.01
COUG
.01
LOSG
1.5µH
COTY
25V
33µ
COUH
.01
COUJ
.01
GC
15V
9V
-9V
5V
GC
VD
HD
GC
GC
CL
GC
SHT-FL
SHT-2
SHT-1
SHT-0
DC
EC
PCB-AE
(ENCODER)
B
322PE
COSH
.01
COSK
.01
COSJ
.01
ROSK
0
ROSJ
1K
ROSH
1K
ROSG
1K
MODE1
MODE2
MODE3
D0
D1
D2
EN
XSUB
MODE4
VDD
VDD
XH1
XH2
VSS
VAA
FL
ROSF
1K
COSE
.01
COSF
.01
COSG
6.3V
47µ
XV1
XSG2
XSG1
XPG
DOSA
MA141K
ROTD
1M
ROTE
27K
COTG
50V
1µ
ROTF
47K
ROTH
1M
DOSB
MA141K
COTJ
50V
1µ
ROTJ
39K
VROSA
B-20K
COTZ
.01
COTF
1000P
COTH
1000P
TPOSB
LOSB
22µH
COSW
6.3V
33µ
OS
COSX
.01
ICOSC
MC74HC04AFR
ROTA
10
ROTB
10
ROTC
47
ROTG
47
COTK
.01
COTL
16V
47µ
ROTM
390
ROTK
180K
COTM
50V
1µ
ROTL
27K
HO2
HO1
LHO1
RG
RD
GND
GND
VSS
NC
VGG
VO4
VO3
VO2
SUB
GND
VO1
VL
GND
VDD
VOUT
ICOSF
ICX039AK
ROTP
0
COTN
35V
4.7µ
ROTN
0
COTP
35V
4.7µ
QOSD
2SC4098Ⓠ
2SC3936Ⓒ
ROTY
5.6K
ROTZ
0
ICOSG KIC-CDS II (B111-2)
CDS
LPF
COTX
16V
22µ
TPOSG
GC
CDS
GC
GC
CLP1
ID
GC
GC
SP2
SP1
DA
YA
PCB-PC
TPOSC
ICOSE
CXD1250M
COSZ
.1
DOSC
COTQ
50V
1µ
DOSD
DA204U
COTS
.1
ROTT
270K
ROTQ
1M
QOSB
2SC4098Ⓠ
2SC3936Ⓒ
DOSE
COTR
50V
1µ
COTU
.1
ROTV
15K
VROSB
B-50K
ROTW
15K
COTV
50V
1µ
ROTX
100K
QOSC
IMX1
XN4501
COTT
.1
ROTR
56K
ROTS
27K
ROTU
39K

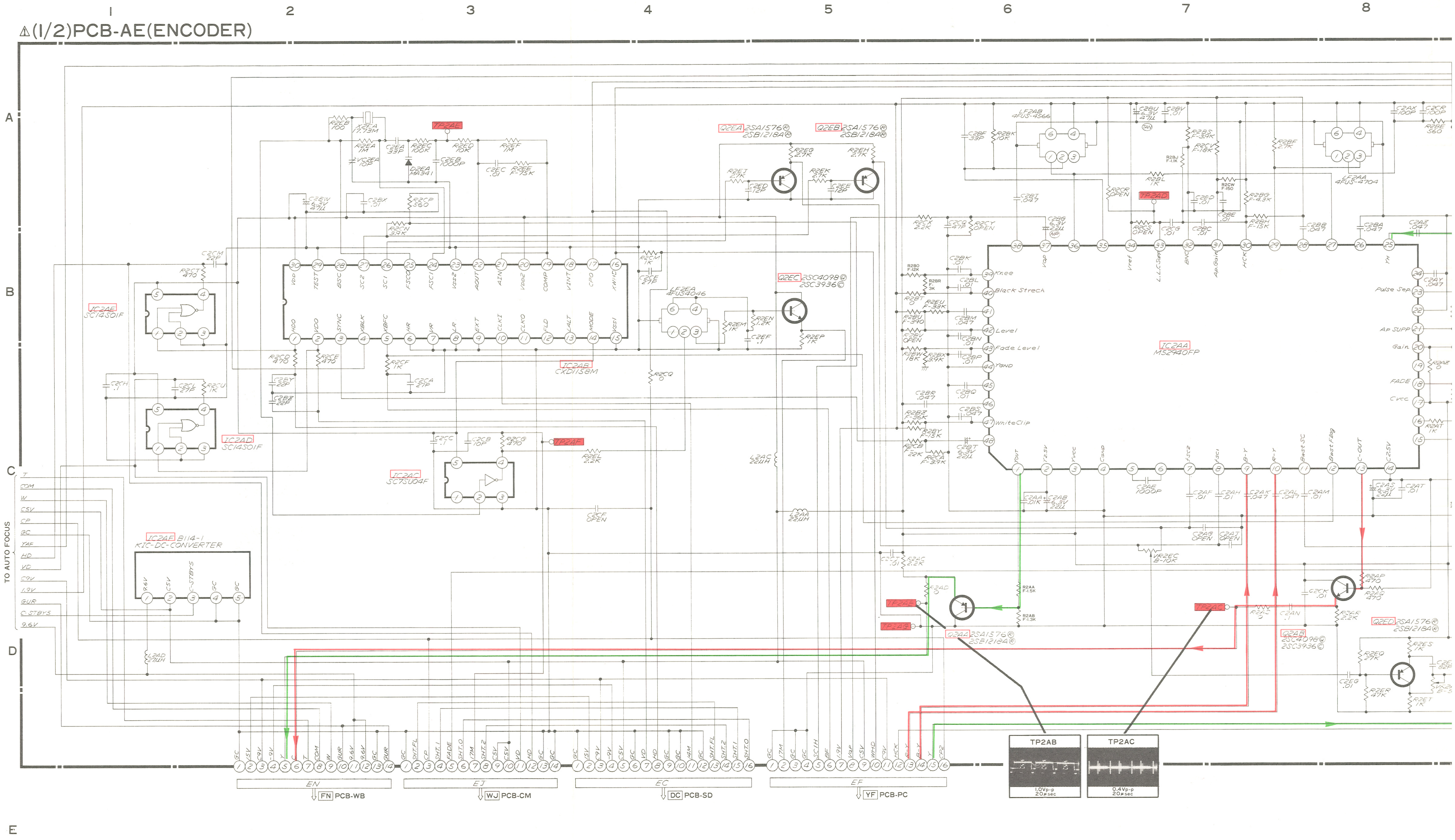

1
2
3
4
5
6
7
A
B
C
D
E
TPIAF
0.3Vp-p
20µsec
TPIAE
0.5Vp-p
20µsec
TPIAA
0.7Vp-p
20µsec
WE
PCB-CM
YE
GC
Y.LL
WBR
WBB
RYG
BYG
RYM
BYM
GC
NC
DA
PCB-SD
Y4
SP1
SP2
GC
GC
ID
CLP1
GC
GC
CDS
GC
LENS UNIT
IRIS COIL
LG
YG
LG
YD
WD PCB-CM
LFIAA NLT4532-S7R1
QIAD IMX1 XN4501
QIAE IMX1 XN4501
QIAF DTC144EU
QIAG IMX1 XN4501
QIAH IMT1
QIAJ 2SC4098Ⓡ 2SC3936Ⓒ
QIAK 2SA1576Ⓡ 2SB1218AⓇ
QIAL IMX1 XN4501
QIAN 2SC4098Ⓡ 2SC3936Ⓒ
ICIAA AN2154FAP
ICIAB LM2904M
QIAC 2SA1576Ⓡ 2SB1218AⓇ
QIAB IMZ1
QIAA 2SC4098Ⓡ 2SC3936Ⓒ
ICIAK NJM3414M
QIAX 2SD1949Ⓡ 2SD1820AⓇ
ICIAG SC1450IF
TPIAF
TPIAE
TPIAA
TPIAB
TPIAG
TPIAK
(TPIAD)
(TPIAN)
DC CONT
AGC CONT
BUFFER
Y AGC
GAB UP
WHITE CLIP
PED SET
OB CLAMP
COMPO-NENT PULSE
SUB AMP
B-Y MAT
R-Y GC
B-Y GC
R-Y MAT
W/C
WB
LPF
S/H
CP
OR
SUB AMP
DC CONT
IRIS COIL

⚠PCB-PC(PROCESS)


5
6
7
8
9
ICIAC AN2020S
Multiplier
Limit
DC Offset
AMP
QIAH IMT1
QIAI 2SC4098Ⓡ 2SC3936Ⓒ
QIAK 2SA1576Ⓡ 2SB1218AⓇ
QIAL IMX1 XN4501
LFIAC 4FUS-4703
ICIAD SC14566F
TPIAG
LFIAB 4FW-4700
LFIAD 4FT-4935
QIAM IMX1 XN4501
QIAV 2SC4098Ⓡ 2SC3936Ⓒ
TPIAJ
LFIAE 4FW-4702
QIBC 2SC4098Ⓡ 2SC3936Ⓒ
(TPIAP)
QIAZ IMX1 XN4501
QIBA IMT1
QIEB IMX1 XN4501
(TPIAN)
QIAN 2SC4098Ⓡ 2SC3936Ⓒ
ICIAE 7P095
QIAP 2SC4098Ⓡ 2SC3936Ⓒ
QIBD DTC144EU UN5213
QIBE DTC144EU UN5213
QIBN 2SA1576Ⓡ 2SB1218AⓇ
QIBM 2SC4098Ⓡ 2SC3936Ⓒ
ICIAF 7P094
IHDL
LPF
SUB AMP
DC CONT
R-Y MAT
ICIAG SC14301F
TPIAB
QIAS 2SC4098Ⓡ 2SC3936Ⓒ
QIAQ IMT1
QIAY DTC144EU UN5213
(TPIAQ)
QIAR IMX1 XN4501
QIAX 2SD1949Ⓡ 2SD1820AⓇ
TPIAK
ICIAH LM2904M
QIBJ 2SC4098Ⓡ 2SC3936Ⓒ
QIBK DTC144EU UN5213
(TPIAR)
QIBL IMT1
QIBF 2SA1576Ⓡ 2SB1218AⓇ
QIBH 2SC4098Ⓡ 2SC3936Ⓒ
QIBG 2SA1576Ⓡ 2SB1218AⓇ
TPIAJ
0.7Vp-p 20μsec
YF⑮
0.4Vp-p 20μsec
YF⑭
0.3Vp-p 20μ sec
YF⑬
0.4Vp-p 20μsec
EF ENCODER (PCB-AE)
YD
WD PCB-CM
GC
GC
9V
CCLVL
Y.CC
GC
M.APL
GC
W.BLK
HCK
C.SV
WHD
CSV
VAP
1.9V
BF
SCIH
GC
GC
17M
GC

HS-C50A
HS-C50B
HS-C50E(3/10)

⚠(1/2)PCB-AE(ENCODER)


1
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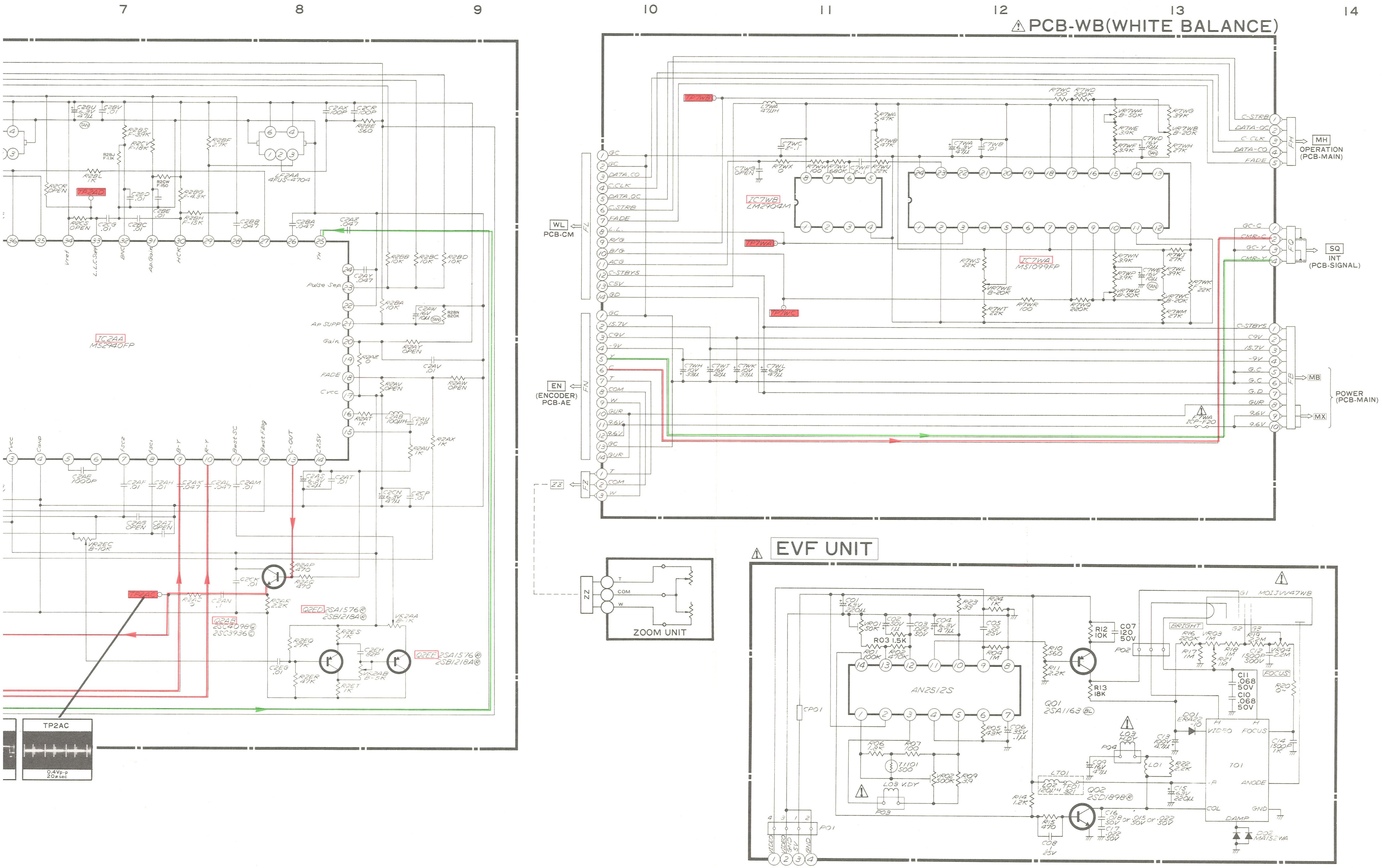
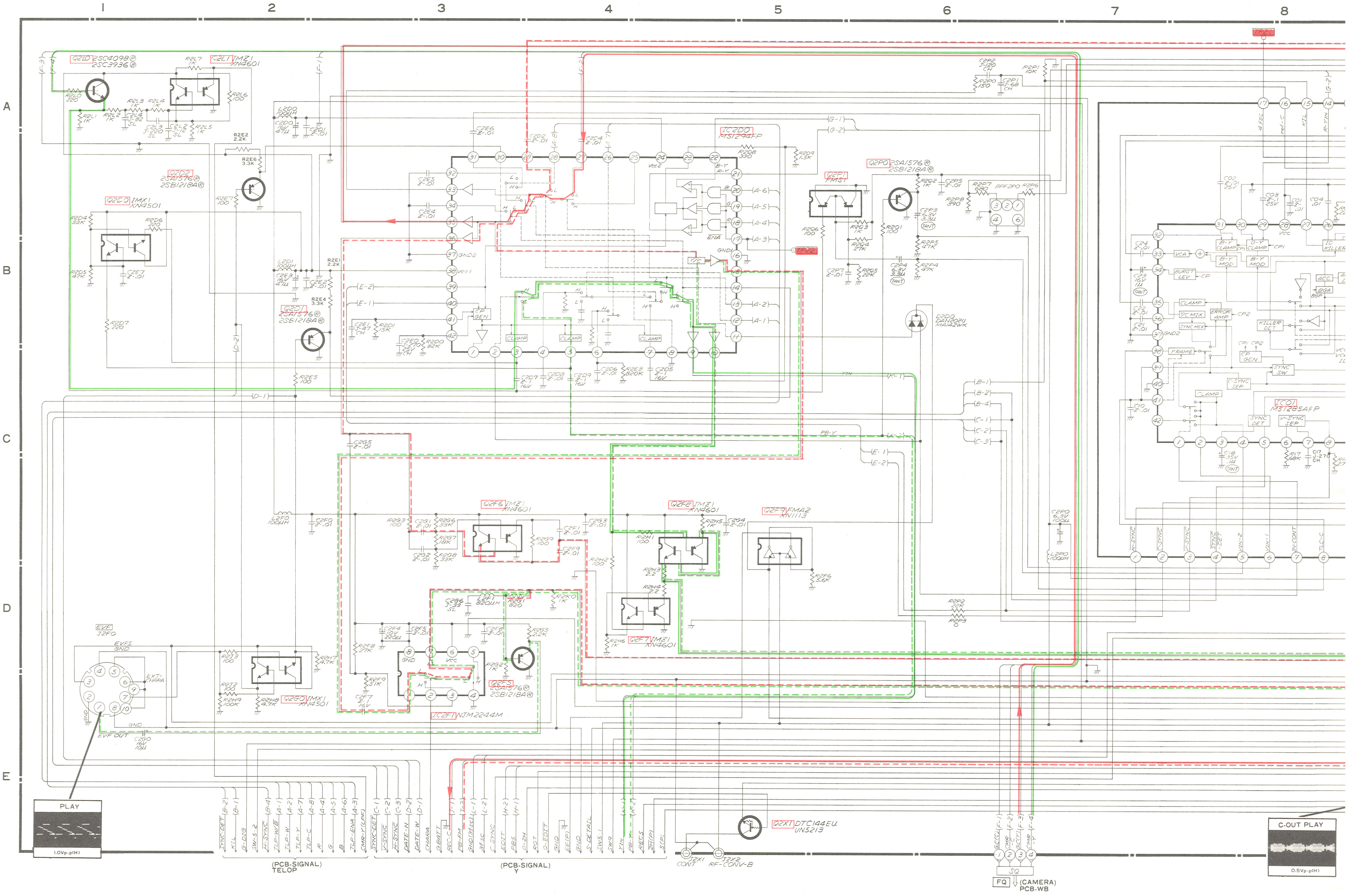
5
6
7
8
A
B
C
D
E
IC2AE SC14S01F
IC2AD SC14S01F
IC2AC SC7SU04F
IC2AB CXD1158M
IC2AA M52440FP
IC2AF B114-1
KIC-DC-CONVERTER
Q2EA 2SA1576® 2SB1218A®
Q2EB 2SA1576® 2SB1218A®
Q2EC 2SC4098® 2SC3936©
Q2AA 2SA1576® 2SB1218A®
Q2AB 2SC4098© 2SC3936©
Q2ED 2SA1576® 2SB1218A®
X2EA 17.73M
LF2EA 4FUS4046
LF2AB 4FUS-4566
LF2AA 4FUS-4704
D2EA MA341
TP2AE
TP2AF
TP2AD
TP2AB
TP2AC
L2AC 22μH
L2AA 22μH
L2AD 27μH
VR2EC B-10K
Knee
Black Strech
Level
Fade Level
YGND
WhiteClip
Pulse Sep
Ap SUPP
Gain
FADE
Cvcc
VDD
TEST
BSC
SC2
SC1
FSC0
FSC1
VSS2
AOUT
AIN
VDD2
COMP
VINT
CP0
XW1C
HDD
VDD
SYNC
VBLK
YBFC
HR
VR
LR
EXT
CLKI
CLKO
FLD
ALT
MODE
VSS1
9.6V
C5V
C-STBYS
GC
TO AUTO FOCUS
T
COM
W
C5V
CP
BC
YAF
HD
VD
C9V
1.9V
GUR
C.STBYS
9.6V
EN
FN PCB-WB
EJ
WJ PCB-CM
EC
DC PCB-SD
EF
YF PCB-PC
TP2AB
1.0Vp-p
20μsec
TP2AC
0.4Vp-p
20μsec


7
8
9
10
11
12
13
14
PCB-WB(WHITE BALANCE)
IC2AA
M52940FP
TP2AD
TP2AC
0.4Vp-p
20μsec
Q2AB
2SC4098
2SC3936
Q2ED
2SA1576
2SB1218A
Q2EE
2SA1576
2SB1218A
LF2AA
4FUS-4704
WL
PCB-CM
EN
(ENCODER)
PCB-AE
ZZ
FL
FN
FZ
MH
OPERATION
(PCB-MAIN)
SQ
INT
(PCB-SIGNAL)
MB
MX
POWER
(PCB-MAIN)
IC7WB
LM2904M
IC7WA
M51099FP
TP7WB
TP7WA
TP7WC
F7WA
ICP-F20
C-STRB
DATA-OC
C-CLK
DATA-CO
FADE
GC-C
CMR-C
GC-Y
CMR-Y
C-STBYS
C9V
15.7V
-9V
G.C
G.D
GUR
9.6V
ZOOM UNIT
T
COM
W
EVF UNIT
AN2512S
Q01
2SA1163
Q02
2SD1898
T01
M01JVV47WB
BRIGHT
FOCUS
L03
H.DY
L03 V.DY
T1101
P01
VIDEO
GND
5V
D02
MA152WA
D01
ERA22-10
VIDEO
ANODE
DAMP
COL
GND


1
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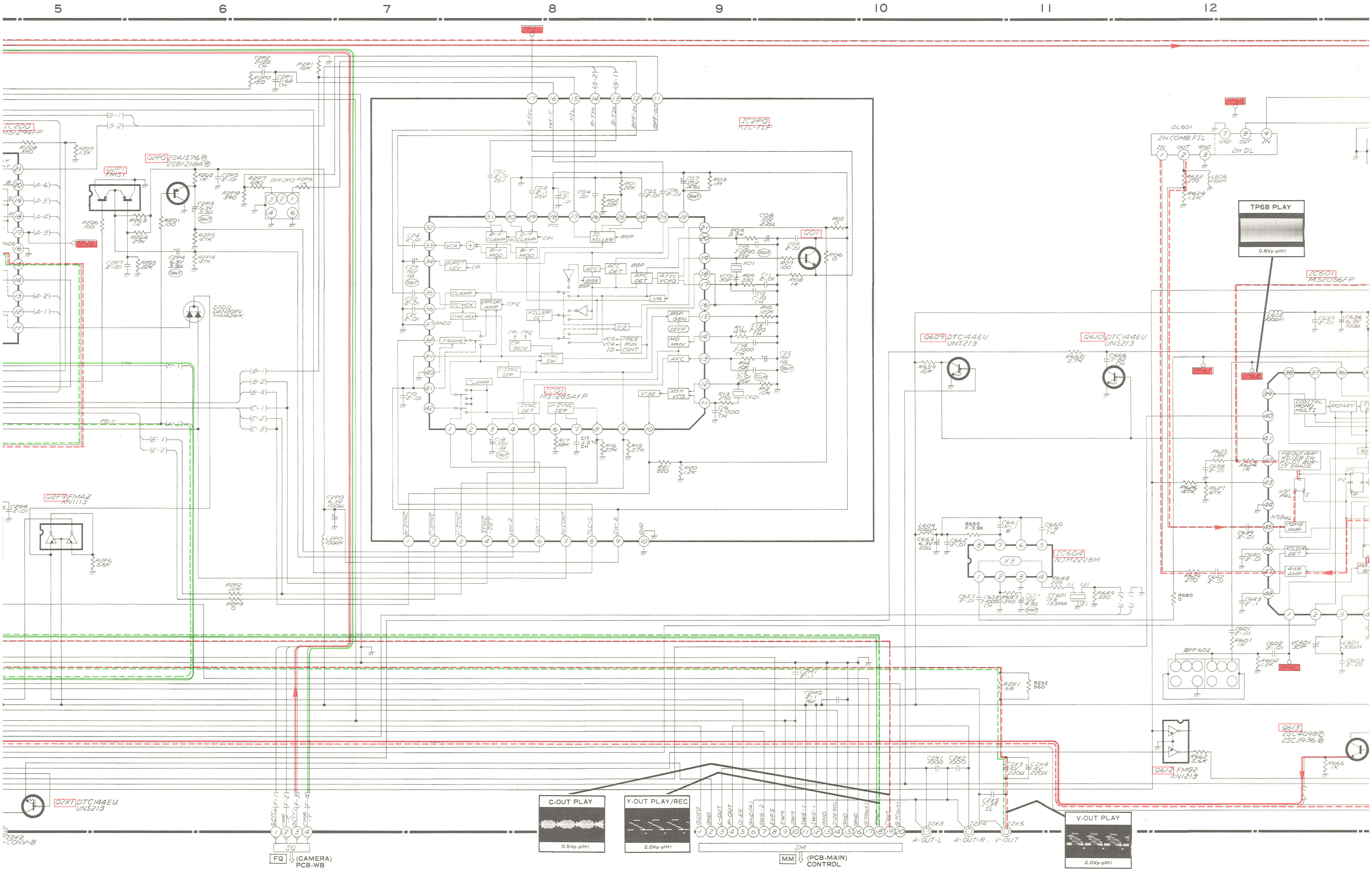
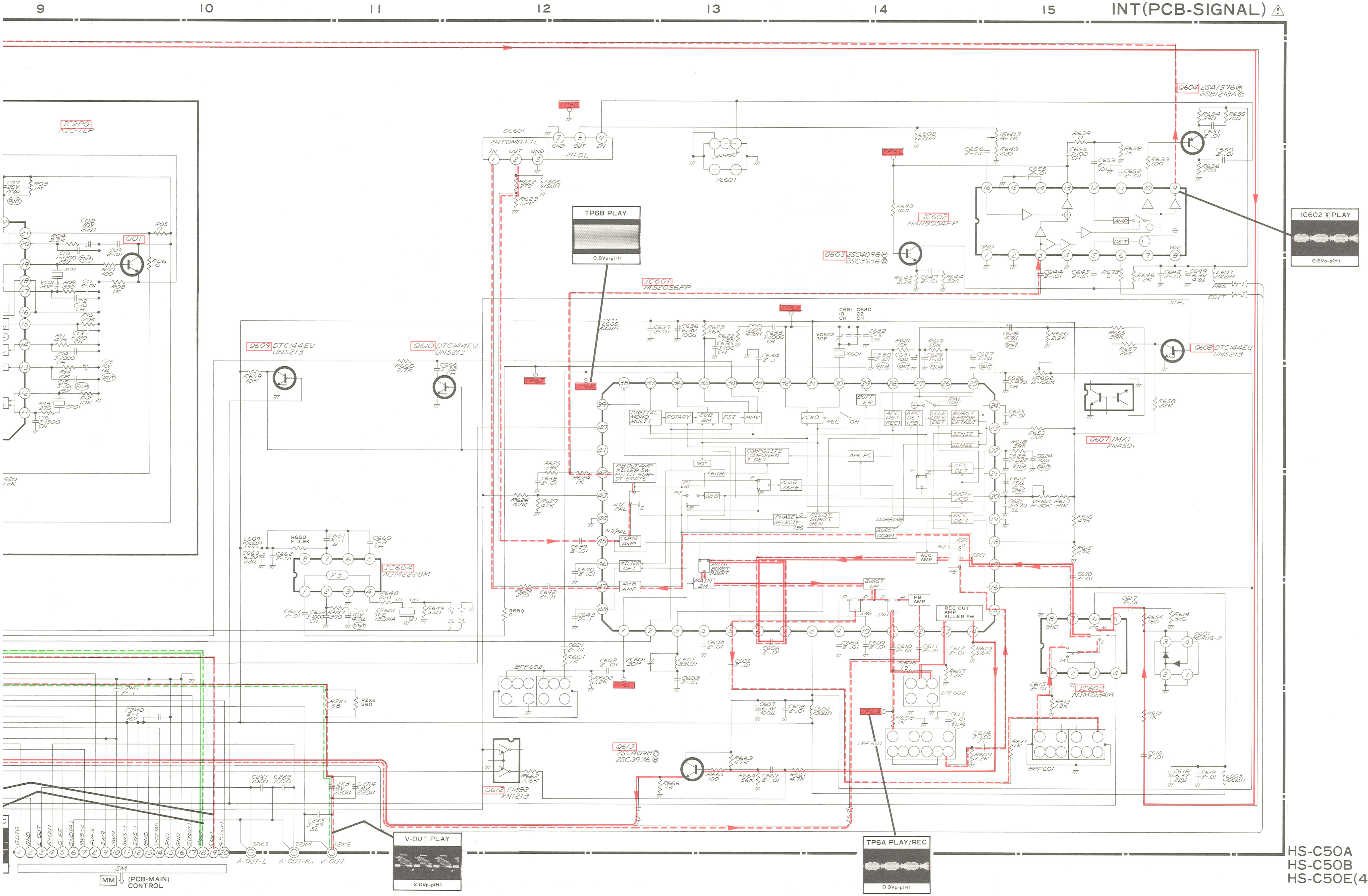
6
7
8
A
B
C
D
E
Q2L0 2SC4098Ⓡ 2SC3936Ⓡ
Q2L1 IMZ1 XN4601
R2L0 220
R2L1 1K
R2L2 1K
R2L3 1K
R2L4 1K
R2L5 1K
R2L6 100
R2L7 1K
C2L3 J-220 SL
C2L4 J-82 SL
C2L2 J-12 SL
L2D0 100μH
C2D0 16V 47μ
C2D1 Z-.01
R2E2 2.2K
R2E6 3.3K
R2E7 100
Q2D2 2SA1576Ⓡ 2SB1218AⓇ
Q2C0 IMX1 XN4501
R2D4 33K
R2D5 47K
R2D6 220
C2E7 Z-.01
R2D7 220
L2D1 100μH
C2E3 16V 47μ
C2E2 Z-.01
R2E1 2.2K
R2E4 3.3K
Q2D1 2SA1576Ⓡ 2SB1218AⓇ
R2E5 100
C2E6 Z-.01
C2D2 Z-.01
C2E4 Z-.01
C2E5 Z-.01
C2E4 Z-.01
IC2D0 M51294FP
R2D8 330
R2D9 1.5K
CP GEN
CLAMP
CLAMP
CLAMP
GND2
Vcc-1
Vcc2
ENA
GND1
B-Y
R-Y
C2E1 F-47 CH
R2D1 15K
C2E0 .05V 25V CH
R2D0 82K
C2D7 Z-1 16V
C2D8 Z-.01
C2D9 Z-1 16V
C2D6 Z-.01
R2E3 820K
C2D5 Z-1 16V
(A-6)
(A-5)
(A-4)
(A-3)
(A-2)
(A-1)
(E-2)
(E-1)
(D-1)
(D-2)
(G-1)
(G-2)
(F-1)
(F-2)
(F-3)
TP2C
TP2A
Y/C
C2P2 J-120 CH
C2P1 J-68 CH
R2P0 150
R2P1 10K
Q2P0 2SA1576Ⓡ 2SB1218AⓇ
Q2P1 FMS1
R2G2 1K
C2P5 Z-.01
R2P7 680
BPF2P0
R2P6 1K
R2P8 390
C2P3 6.3V 3.3μ TANT
R2G3 1K
R2G4 27K
R2G6 100
R2G1 100
R2P5 47K
R2P4 47K
C2P4 6.3V 3.3μ TANT
C2P7 Z-.01
R2G5 22K
D2D0 DAN202U MA142WK
(B-1)
(B-2)
(B-4)
(C-1)
(C-2)
(C-3)
(K-1)
(K-2)
(E-1)
(E-2)
Y/N
PB-Y
C2G5 Z-.01
L2F0 100μH
C2F0 Z-.01
R2G3 100
C2G1 Z-.01
C2G2 Z-.01
R2G6 33K
R2G7 18K
R2G8 33K
Q2F6 IMZ1 XN4601
R2G9 100
C2F1 Z-.01
C2F9 Z-.01
C2G3 Z-.01
Q2FC IMZ1 XN4601
R2H5 1K
C2G4 Z-.01
R2H1 100
R2H2 100
R2H3 2.2
R2H4 2.2
Q2F7 IMZ1 XN4601
R2H6 1K
Q2F9 FMA2 XN1113
R2F6 5.6K
C2G6 J-33 SL
L2F1 820μH
R2G1 820
R2K0 1K
C2F4 10V 220μ
C2F5 Z-.01
C2F8 Z-.01
R2G5 22K
R2F8 27K
R2F9 51K
R2G2 1K
C2F7 Z-1 16V
Q2F5 2SA1576Ⓡ 2SB1218AⓇ
IC2F1 NJM2244M
GND
Vcc
EVF J2F0
EVFS GND
EXT-CHARA
GND
EVF OUT
C2G0 16V 10μ
R2J3 100
R2J2 100
R2H9 100K
R2H8 4.7K
Q2G0 IMX1 XN4501
R2H7 4.7K
R2P2 22K
R2P3 0
C2P0 6.3V 100μ
L2P0 100μH
TP2I
IC01 M51285AFP
C02 Z-.01 25V
C03 Z-1 25V
C01 Z-.01
C04 .01
C24 Z-.01
C23 16V 1μ TANT
C22 Z-.01
C21 Z-.01
C10 Z-.01
C18 35V 1μ TANT
R17 68K
C17 J-270 CH
VCA
BURST LEV
B-Y CLAMP
R-Y CLAMP
B-Y MOD
R-Y MOD
CP1
CP2
ID KILLER
ACC
BGA
BGP
CLAMP
Y/C MIX
SYNC MIX
ERROR AMP
KILLER DET
FRAME
CP GEN
SYNC SW
C-SYNC SEP
CLAMP
SYNC DET
V-SYNC SEP
GND2
Vcc
4.43SC
f REF-C
KIL
R-Y IN
H-SYNC
C-SYNC
V-SYNC
SYNC DET
VIN-2
VIN-1
IN-CONT
TLC-C
PLAY
1.0Vp-p(H)
SYNC-DET
KIL
G-DIG
SW-S.2
H-SYNC
TLP-W/B
TLP-W
TLP-Y
TLP-C
R
G
B
TLP-ENA
CMR-Y(AF)
(B-2)
(B-1)
(B-4)
(A-1)
(A-2)
(A-7)
(A-8)
(A-4)
(A-5)
(A-6)
(A-3)
(PCB-SIGNAL) TELOP
SYNC-DET
V-SYNC
H-SYNC
DATE-W
CHARA
G.BATT
REC-C
PB-FM
GND(3fsc)
3fSC
C.SYNC
EDIT
PBS
D-2H
ROT
O.EDIT
GND
EE(P)
GND
S.DETAIL
SW9.1
SW9
Y/N
PB-Y
REC.S
SH(P)
S(P)
(C-1)
(C-2)
(C-3)
(D-2)
(D-1)
(J-1)
(J-2)
(L-1)
(L-2)
(H-2)
(H-1)
(K-1)
(K-2)
(PCB-SIGNAL) Y
J2X1 CONT
J2X2 RF-CONV-B
Q2X1 DTC144EU UN5213
SC(C)
CMR-C
SC(Y)
CMR-Y
(F-1)
(F-2)
(F-3)
(F-4)
SQ
FQ
(CAMERA) PCB-WB
C-OUT PLAY
0.5Vp-p(H)

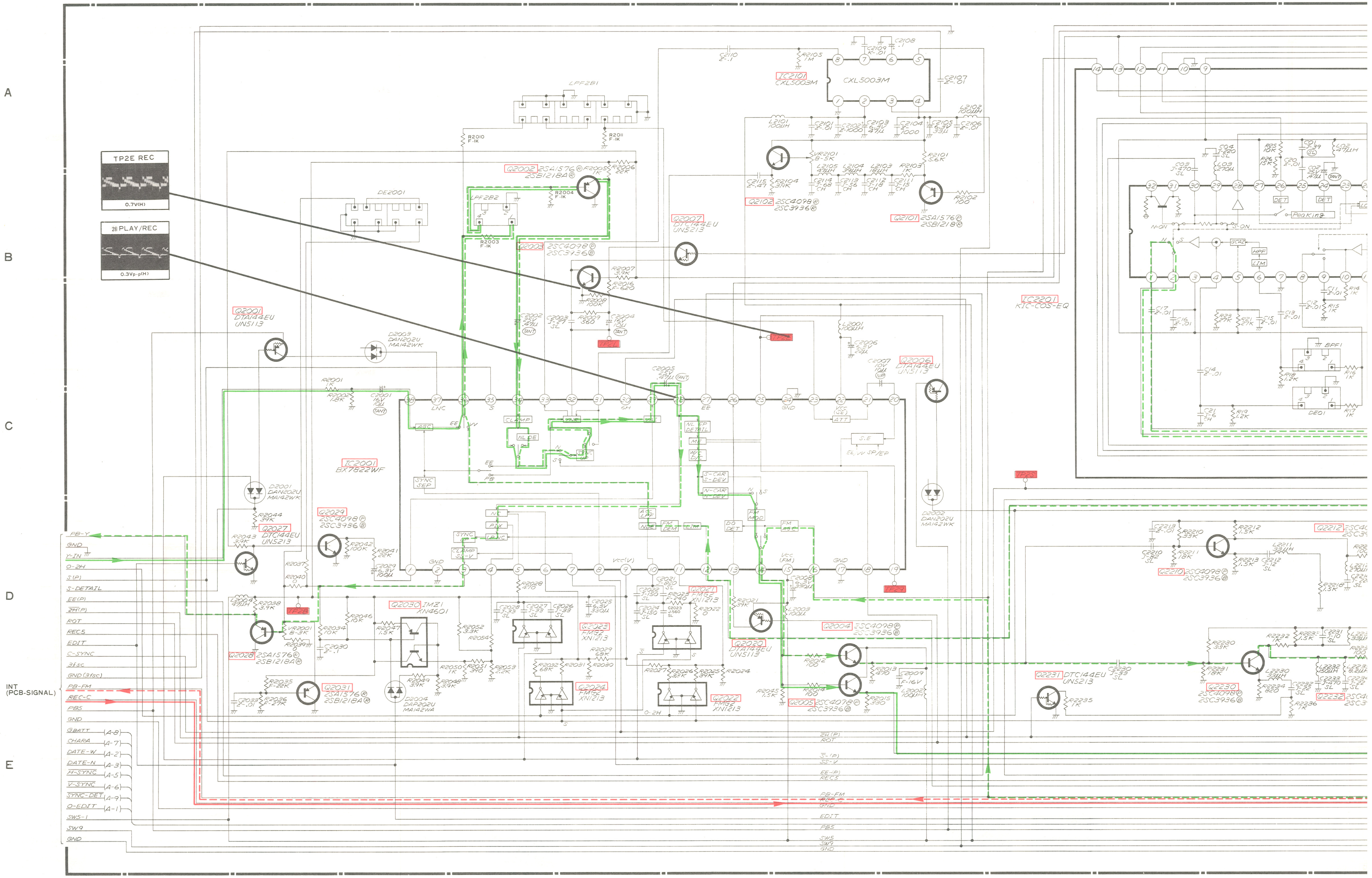

5
6
7
8
9
10
11
12
TP21
TP22
TP60
TP61
TP68
TP6C
IC2D0
M51294FP
Q2F1
FMS1
Q2P0
2SA1576®
2SB1218A®
D2D0
DAN202U
MA142WK
Q2F9
FMA2
XN1113
IC2P0
KIC-TLP
IC01
M51265AFP
Q01
X01
CF01
Q609
DTC144EU
UN5213
Q610
DTC144EU
UN5213
IC604
NJM2228M
X3
DL601
2H COMB FIL
2H DL
IN
OUT
GND
TP68 PLAY
0.8Vp-p(H)
IC601
M52056FP
DIGITAL MONO MULTI
ROTARY
PB OUT AMP KILLER SW PILOT BURST ERASE
NT/PAL
COMB AMP
KILLER DET
4dB AMP
BPF602
Q612
FMG2
XN1213
Q613
2SC4098®
2SC3936®
Q2X1
DTC144EU
UN5213
C-OUT PLAY
0.5Vp-p(H)
Y-OUT PLAY/REC
2.0Vp-p(H)
V-OUT PLAY
2.0Vp-p(H)
SQ
FQ
(CAMERA)
PCB-WB
SM
MM
(PCB-MAIN)
CONTROL
J2X3
A-OUT-L
J2X4
A-OUT-R
J2X5
V-OUT
J2X2
-CONV-B
B-Y CLAMP
R-Y CLAMP
B-Y MOD
R-Y MOD
VCA
BURST LEV
IC KILLER
ACC
ACC DET
BGA
APC DET
4fsc VCXO
1/4
CLAMP
Y/C MIX
SYNC MIX
ERROR AMP
KILLER DET
BGP GEN
DIFF
MD MMV
AFC
1/2
VCO FREE RUN CONT
CP GEN
SYNC SW
C-SYNC SEP
CLAMP
SYNC DET
V-SYNC SEP
1/32
32H VCO
VCC
GND2
FRAME
4fsc
ref-C
KIL
R-YIN
B-YIN
BPF-IN
BPF-OUT
H-SYNC
V-SYNC
SYNC-DET
YIN-2
YIN-1
IN-CONT
TLC-C
SW-5
GND
C-DIG
GND
Y-OUT
C-OUT
GND(A)
SW5-2
EV5-5
SW9
SW5-1
S-DETAIL
Y(OUT)
C(OUT)
GC(C)F-1
CMR(C)F-2
GC(Y)F-3
CMR(Y)F-4

INT(PCB-SIGNAL) ⚠


9
10
11
12
13
14
15
IC2P0
KIC-TLP
Q01
XO1
CFO1
DL601
2H COMB FIL
2H DL
VL601
TP6B PLAY
0.8Vp-p(H)
TP6B
TP6D
TP6E
TP6F
TP6X
TP6C
TP6A
L608
22μH
VR603
B-1K
IC602
HA118054FP
Q603 2SC4098Ⓡ
2SC3936Ⓡ
Q604 2SA1576Ⓡ
2SB1218AⓇ
IC602⑨PLAY
0.6Vp-p(H)
IC601
M52056FP
Q609 DTC144EU
UN5213
Q610 DTC144EU
UN5213
Q608 DTC144EU
UN5213
Q607 IMX1
XN4501
VC602
30P
X601
DIGITAL MONO MULTI
ROTARY
SUB BM
FSI
MMV
VCXO
REC
ON
BUFF ER
APC DET (REC)
APC DET (PB)
ID LOCK DET
BURST ERROR DETADJ
SENSE
COMPOSITE COMPONEN T DET
APC PC
AFC DET
320fH VCO
ACC DET
PB OUT AMP KILLER SW PILOT BURST ERASE
NT/PAL
COMB AMP
KILLER DET
4dB AMP
MAIN BM
PILOT BURST INSERT
PHASE SELECT
PILOT BURST GEN
DABBING
BURST DOWN
ACC AMP
BURST UP
PB AMP
REC OUT AMP KILLER SW
SW2
SW1
IC604
NJM2228M
X3
BPF602
LPF602
LPF601
BPF601
IC603
NJM2234M
D601
MA4111G-2
Q613
2SC4098Ⓡ
2SC3936Ⓡ
Q612 FMG2
XN1213
R680
0
R650
F 3.9K
R2X1
68
R2X2
560
SM
MM
(PCB-MAIN) CONTROL
A-OUT-L
A-OUT-R
V-OUT
J2X3
J2X4
J2X5
V-OUT PLAY
2.0Vp-p(H)
TP6A PLAY/REC
0.9Vp-p(H)
EDIT
PB5
(H-1)
(H-2)
S(P)

HS-C50A
HS-C50B
HS-C50E(4/10)

Y(PCB-SIGNAL) ⚠



2
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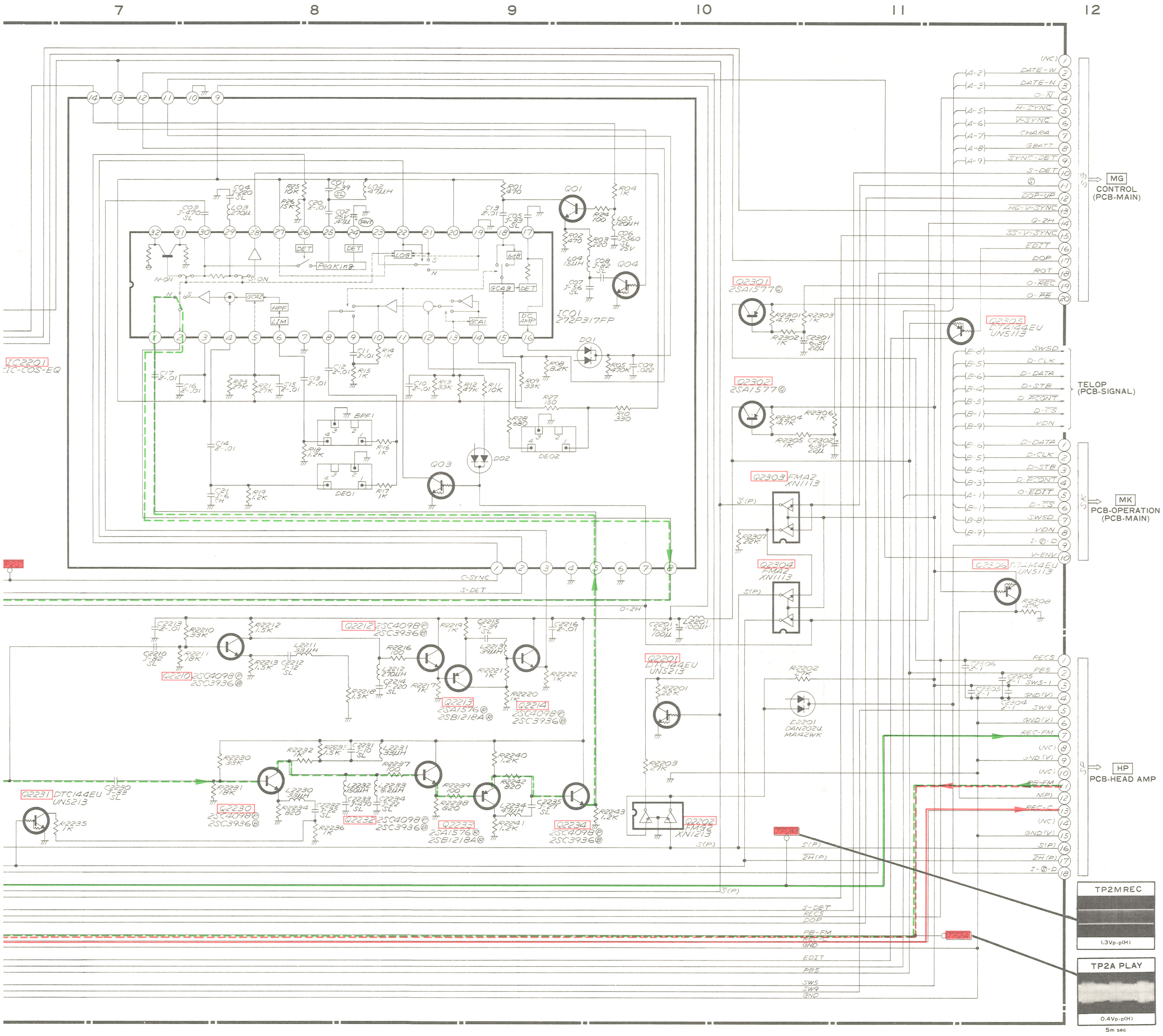
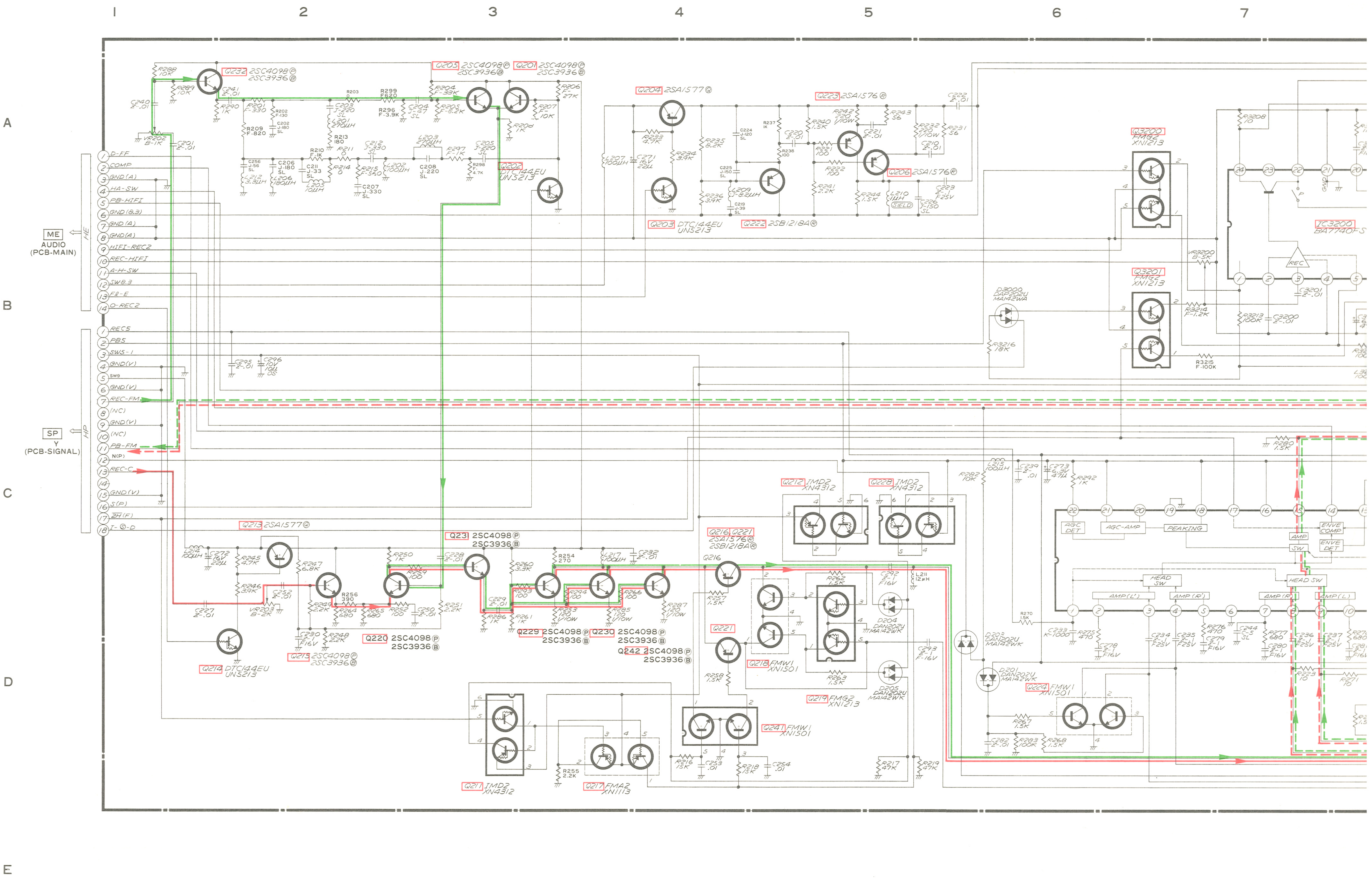
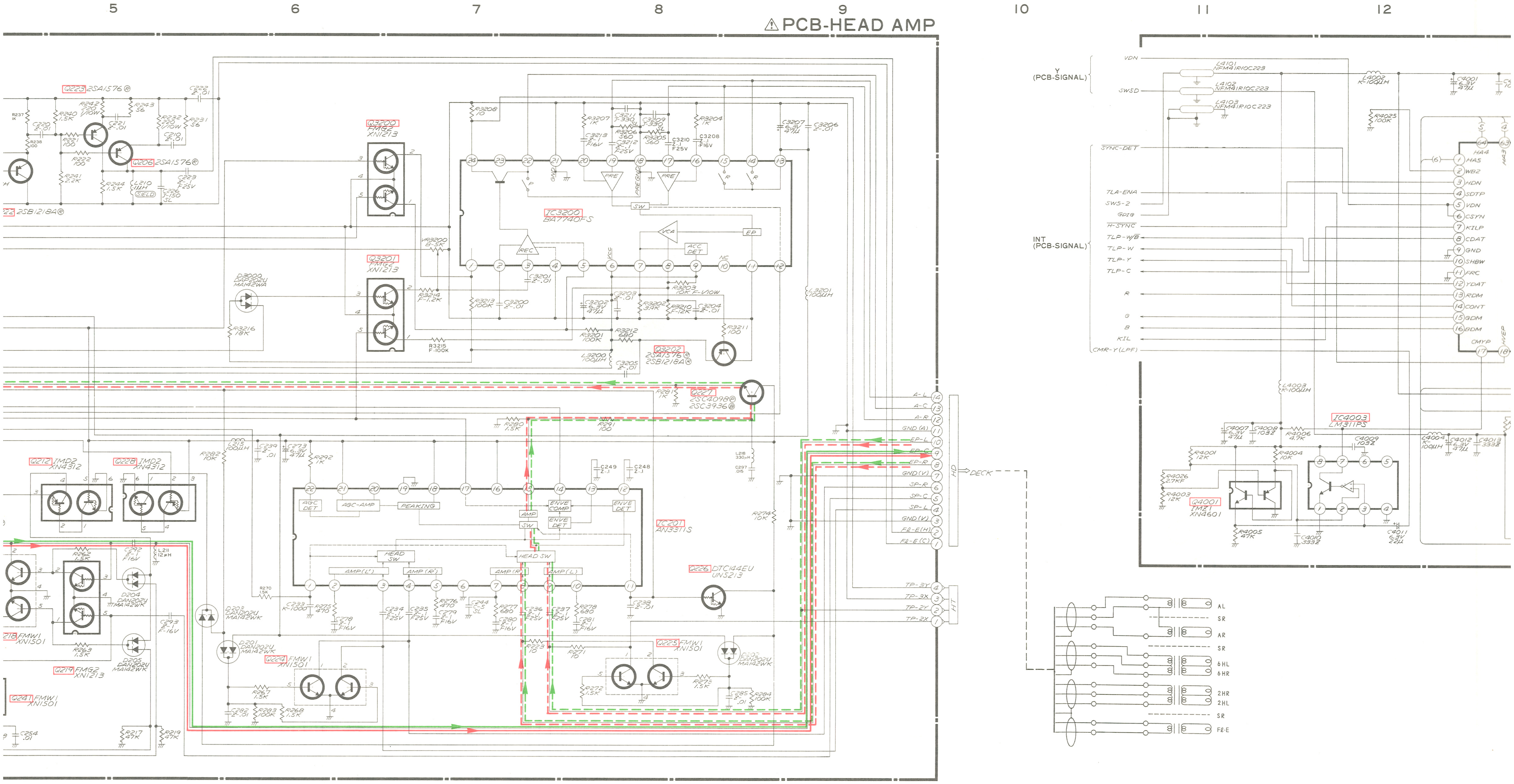
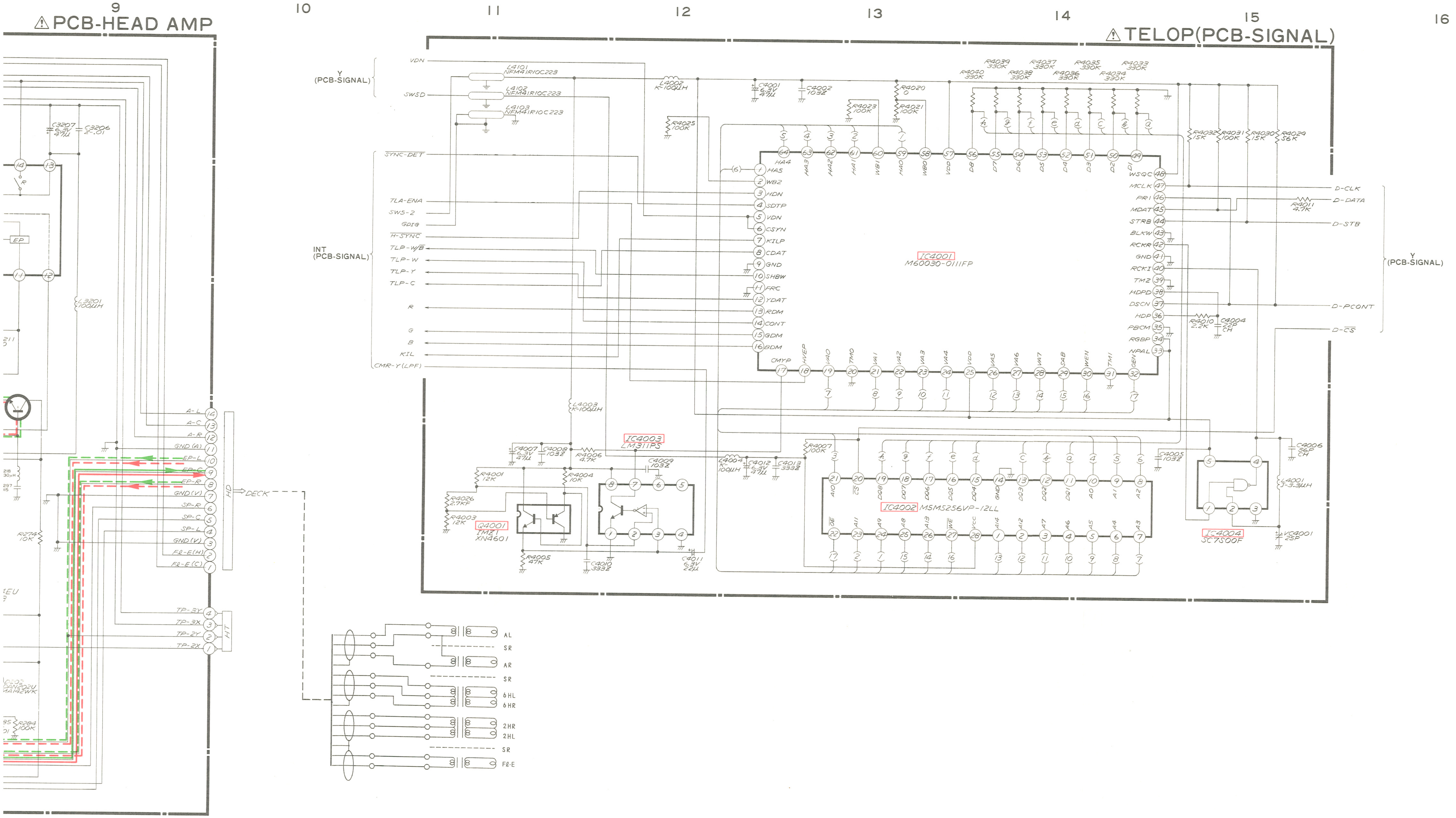
A
B
C
D
E
TP2E REC
0.7V(H)
28 PLAY/REC
0.3Vp-p(H)
LPF2B1
LPF2B2
DE2001
R2010 F-1K
R2011 F-1K
R2003 F-1K
R2004 F-1K
Q2002 2SA1576Ⓡ 2SB1218AⓇ
Q2003 2SC4098Ⓡ 2SC3936Ⓡ
Q2007 DTC144EU UN5213
Q2001 DTA144EU UN5113
D2003 DAN202U MA142WK
IC2101 CXL5003M
CXL5003M
Q2102 2SC4098Ⓡ 2SC3936Ⓡ
Q2101 2SA1576Ⓡ 2SB1218Ⓡ
L2101 100μH
L2102 100μH
VR2101 B-5K
IC2001 BX7622WF
IC2201 KIC-COS-EQ
Q2006 DTA144EU UN5113
D2002 DAN202U MA142WK
D2001 DAN202U MA142WK
Q2027 DTC144EU UN5213
Q2029 2SC4098Ⓡ 2SC3936Ⓡ
Q2028 2SA1576Ⓡ 2SB1218AⓇ
Q2031 2SA1576Ⓡ 2SB1218AⓇ
Q2030 IMZ1 XN4601
D2004 DAP202U MA142WA
Q2025 FMG2 XN1213
Q2024 FMG2 XN1213
Q2021 FMG2 XN1213
Q2022 FMG2 XN1213
Q2020 DTA144EU UN5113
Q2004 2SC4098Ⓡ 2SC3936Ⓡ
Q2005 2SC4078Ⓡ 2SC3936Ⓡ
Q2210 2SC4098Ⓡ 2SC3936Ⓡ
Q2212
Q2231 DTC144EU UN5213
Q2230 2SC4098Ⓡ 2SC3936Ⓡ
Q2232
TP2E
TP2S
TP2A
TP2B
TP2C
TP2D
CLAMP
NL DE
AGC
SYNC SEP
EE
PB
LNC
S
SH
GND
VCC (EE)
ATT
NL EP DETAIL
ME
W/C E/C
S-CAR S-DEV
N-CAR N-DEV
S.E
EE, W SP/EP
FM MOD
FM AGC
DO DET
FM DEM
LIM
NC
PTX
SYNC SEP
CLAMP SS-V
Vcc(V)
Vcc (FM)
DET
Peaking
HPF
LIM
BPF1
DE01
N-ON
S-ON
PB-Y
GND
Y-IN
O-2H
S(P)
S-DETAIL
EE(P)
2H(P)
ROT
RECS
EDIT
C-SYNC
3fsc
GND(3fsc)
PB-FM
REC-C
PBS
GND
9BATT (A-8)
CHARA (A-7)
DATE-W (A-2)
DATE-N (A-3)
H-SYNC (A-5)
V-SYNC (A-6)
SYNC-DET (A-9)
O-EDIT (A-1)
SW5-1
SW9
GND
INT (PCB-SIGNAL)
2H(P)
ROT
S-(P)
SS-V
EE-(P)
RECS
PB-FM
REC-C
GND
EDIT
PBS
SW5
SW9
GND


7
8
9
10
11
12
IC2201
IC-COS-EQ
IC01
272P317FP
Q01
Q03
Q04
D01
D02
BPF1
DE01
DE02
Peaking
LOG
DET
GCA1
GCA2
GCA3
HPF
LIM
DC AMP
6dB
N-ON
S-ON
C-SYNC
S-DET
O-2H
Q2301
2SA1577Ⓠ
Q2302
2SA1577Ⓠ
Q2303 FMA2
XN1113
Q2304
FMA2
XN1113
Q2305
DTA144EU
UN5113
Q2306 DTA144EU
UN5113
R2308
47K
Q2201
DTC144EU
UN5213
Q2202
FMG2
XN1213
D2201
DAN202U
MA142WK
Q2210 2SC4098Ⓡ
2SC3936Ⓡ
Q2212 2SC4098Ⓡ
2SC3936Ⓡ
Q2213
2SA1576Ⓡ
2SB1218AⓇ
Q2214 2SC4098Ⓡ
2SC3936Ⓡ
Q2230
2SC4098Ⓡ
2SC3936Ⓡ
Q2231 DTC144EU
UN5213
Q2232 2SC4098Ⓡ
2SC3936Ⓡ
Q2233
2SA1576Ⓡ
2SB1218AⓇ
Q2234
2SC4098Ⓡ
2SC3936Ⓡ
S(P)
ZH(P)
TP2M
TP2A
(NC) 1
(A-2) DATE-W 2
(A-3) DATE-N 3
O-N 4
(A-5) H-SYNC 5
(A-6) V-SYNC 6
(A-7) CHARA 7
(A-8) GBATT 8
(A-9) SYNC-DET 9
S-DET 10
Ⓢ 11
DOP-UP 12
HQ-V-SYNC 13
Q-2H 14
SS-V-SYNC 15
EDIT 16
DOP 17
ROT 18
O-REC 19
O-PB 20
SG
MG
CONTROL
(PCB-MAIN)
(B-8) SWSD
(B-5) D-CLK
(B-6) D-DATA
(B-4) D-STB
(B-3) D PCONT
(B-1) D-CS
(B-9) VDN
TELOP
(PCB-SIGNAL)
(B-6) D-DATA 1
(B-5) D-CLK 2
(B-4) D-STB 3
(B-3) D-PCONT 4
(A-1) O-EDIT 5
(B-1) D-CS 6
(B-8) SWSD 7
(B-9) VDN 8
I-Ⓢ-D 9
V-ENV 10
SK
MK
PCB-OPERATION
(PCB-MAIN)
RECS 1
PES 2
SWS-1 3
GND(V) 4
SW9 5
GND(V) 6
REC-FM 7
(NC) 8
GND (V) 9
(NC) 10
PB-FM 11
N(P) 12
REC-C 13
(NC) 14
GND(V) 15
S(P) 16
ZH(P) 17
I-Ⓢ-D 18
SP
HP
PCB-HEAD AMP
S-DET
RECS
DOP
PB-FM
REC-C
GND
EDIT
PBS
SWS
SW9
GND
TP2MREC
1.3Vp-p(H)
TP2A PLAY
0.4Vp-p(H)
5m sec

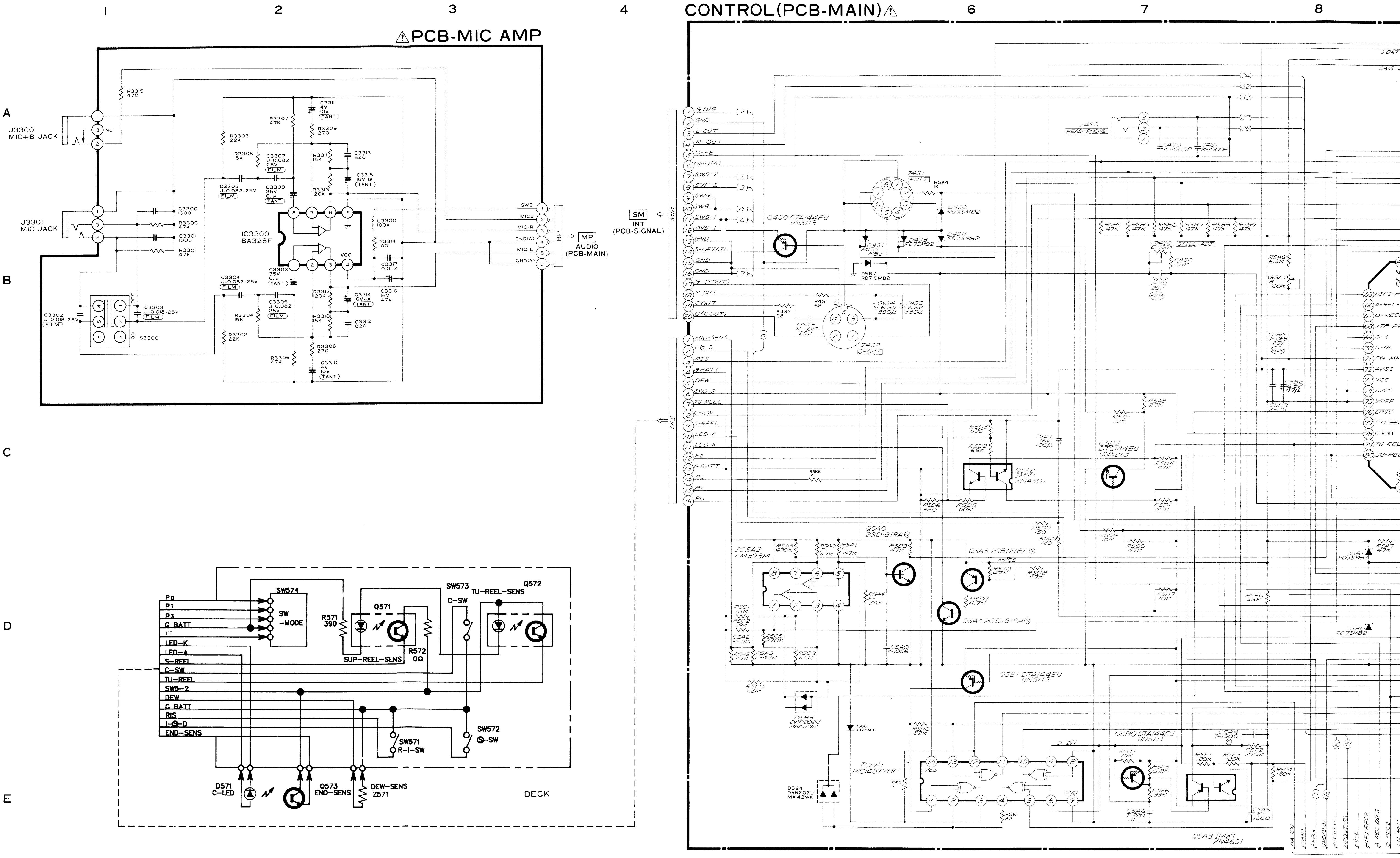


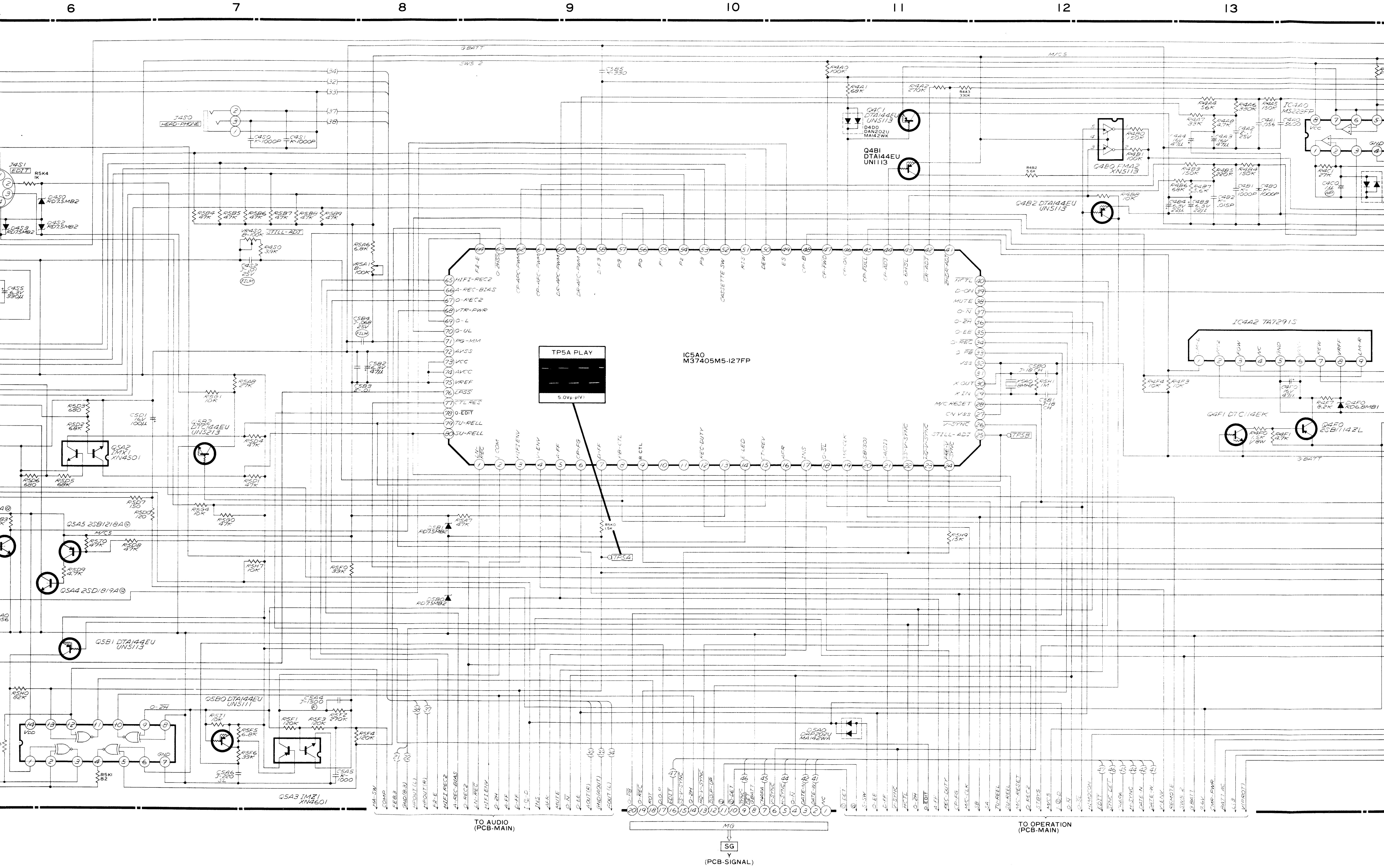
1
2
3
4
5
6
7
A
B
C
D
E
ME
AUDIO
(PCB-MAIN)
HE
SP
Y
(PCB-SIGNAL)
HP
D-FF
COMP
GND (A)
HA-SW
PB-HIFI
GND (8.3)
GND (A)
GND (A)
HIFI-REC2
REC-HIFI
A-H-SW
SW8.3
FB-E
O-REC2
REC5
PB5
SWS-1
GND(V)
SW9
GND(V)
REC-FM
(NC)
GND(V)
(NC)
PB-FM
N(P)
REC-C
GND(V)
S(P)
2H (F)
T-Ǿ-D
Q232 2SC4098ⓟ 2SC3936ⓑ
Q205 2SC4098ⓟ 2SC3936ⓑ
Q201 2SC4098ⓟ 2SC3936ⓑ
Q202 DTC144EU UN5213
Q204 2SA1577ⓠ
Q203 DTC144EU UN5213
Q223 2SA1576ⓡ
Q222 2SB1218Aⓡ
Q206 2SA1576ⓡ
Q3200 FMG2 XN1213
Q3201 FMG2 XN1213
IC3200 BA7740FS
D3000 DAP202U MA142WA
VR3200 B-5K
R3214 F-1.2K
R3213 100K
C3200 Z-.01
C3201 Z-.01
R3216 18K
R3215 F-100K
R3208 10
REC
VR202 B-1K
R288 10K
R289 10K
C240 Z-.01
C241 Z-.01
C201 Z-.01
R290 1K
R201 F-330
R209 F-820
R202 F-130
C202 J-180 SL
R203
C203 J-220 SL
L201 270μH
R299 F620
R296 F-3.9K
C204 J-27 SL
R204 F-33K
R205 F-5.6K
R206 F-27K
R207 F-10K
R208 1K
R213 180
R210 F-1K
R211 0
C212 J-330 SL
L203 270μH
R297 F-1K
C205 J-820 SL
R298 F-4.7K
C256 J-56 SL
C206 J-180 SL
L212 3.3μH
L206 180μH
C211 J-33 SL
R214 0
L205 10μH
R215 F-560
L202 100μH
C208 J-220 SL
C207 J-330 SL
L207 100μH
C271 16V 22μ
R233 4.7K
R234 3.9K
R235 8.2K
R236 3.9K
C224 J-120 SL
C225 J-150 SL
L209 6.8μH
C219 J-39 SL
R237 1K
C220 Z-.01
R238 100
R240 1.5K
R242 220 1/10W
R243 56
C221 Z-.01
R221 100
R222 100
R241 2.2K
R244 1.5K
L210 11μH SHIELD
C222 Z-.01
R232 220 1/10W
R231 56
C210 Z-.01
C223 Z-1 F25V
C226 J-150 SL
C295 Z-.01
C296 10V 10μ OS
Q213 2SA1577ⓠ
Q214 DTC144EU UN5213
Q215 2SC4098ⓟ 2SC3936ⓑ
Q220 2SC4098ⓟ 2SC3936ⓑ
Q231 2SC4098ⓟ 2SC3936ⓑ
Q229 2SC4098ⓟ 2SC3936ⓑ
Q230 2SC4098ⓟ 2SC3936ⓑ
Q242 2SC4098ⓟ 2SC3936ⓑ
Q216 Q221 2SA1576ⓡ 2SB1218Aⓡ
Q216
Q221
Q218 FMW1 XN1501
Q219 FMG2 XN1213
Q212 IMD2 XN4312
Q228 IMD2 XN4312
Q211 IMD2 XN4312
Q217 FMA2 XN1113
Q241 FMW1 XN1501
Q224 FMW1 XN1501
L214 100μH
C272 16V 22μ
R245 4.7K
R246 3.9K
C252 Z-.01
VR203 B-2K
C227 Z-.01
R247 6.8K
R249 2.2K
R264 680
R256 390
R265 680
R252 100
C230 Z-1 F16V
R248 2.2K
R250 1K
R259 100
C228 Z-.01
C250 Z-.01
R251 2.2K
R260 3.3K
C229 Z-.01
R286 1K
R261 1K
R263 100
R253 120 1/10W
R254 270
R294 100
L217 100μH
C232 Z-.01
R295 120 1/10W
R266 100
R287 120 1/10W
R257 1.5K
R258 1.5K
R262 1.5K
R263 1.5K
C292 Z-1 F16V
L211 12μH
C293 Z-1 F16V
D204 DAN202U MA142WK
D205 DAN202U MA142WK
D203 DAN202U MA142WK
D201 DAN202U MA142WK
R216 1.5K
C253 .01
R218 15K
C254 .01
R217 47K
R219 47K
R255 2.2K
L215 100μH
R282 10K
C239 Z-.01
C273 6.3V 47μ
R292 1K
R270 1.5K
C233 K-1000
R275 470
C278 Z-1 F16V
C234 Z-1 F25V
C235 Z-1 F25V
R276 470
C279 Z-1 F16V
C244 F-5 SL
R277 680
C280 Z-1 F16V
C236 Z-1 F25V
C237 680
R267 1.5K
C282 Z-.01
R283 100K
R268 1.5K
R280 1.5K
R223 10
R271 10
AGC DET
AGC-AMP
PEAKING
ENVE COMP
ENVE DET
AMP
SW
HEAD SW
AMP(L')
AMP(R')
AMP(R)
AMP(L)

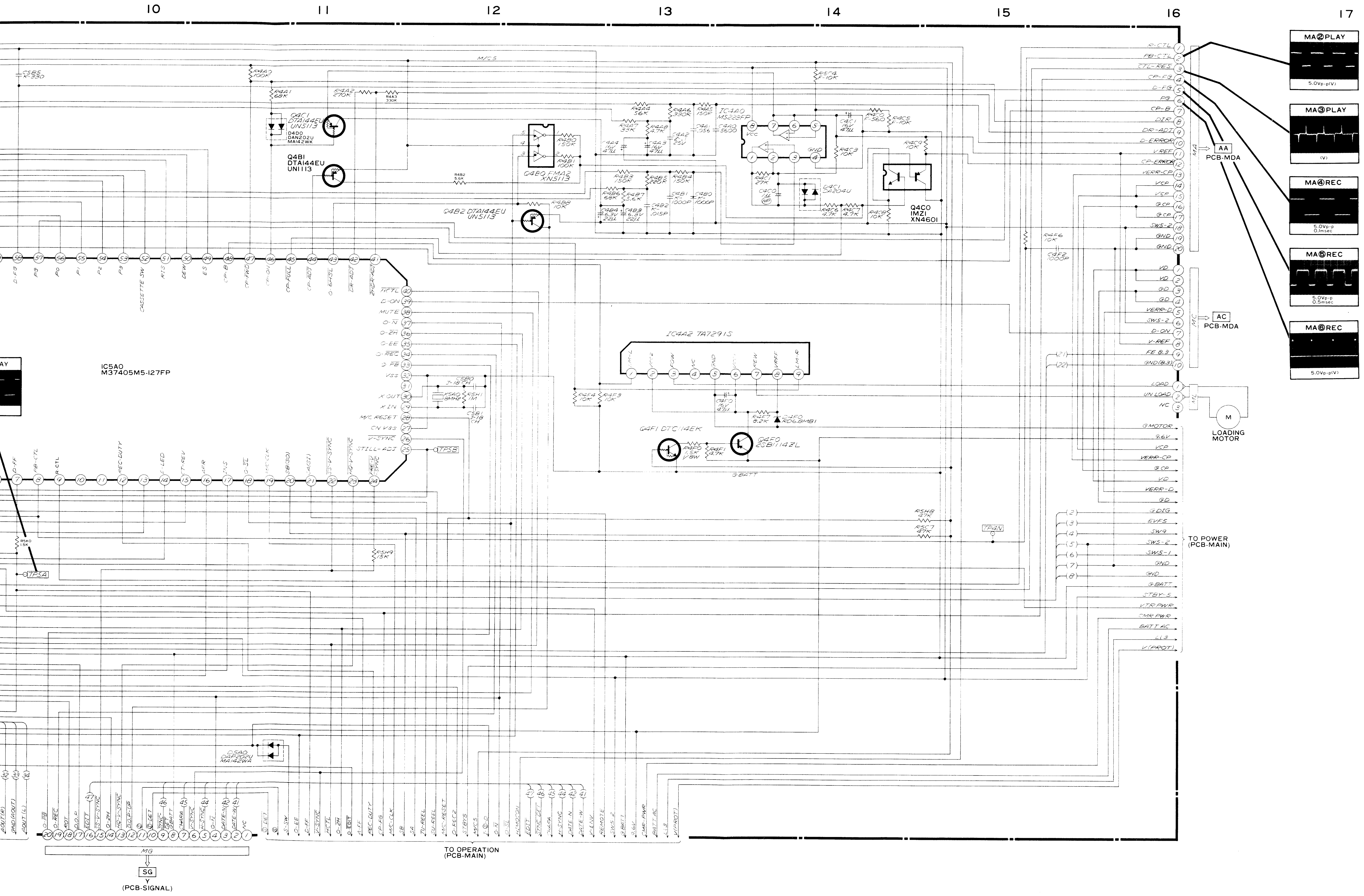

5
6
7
8
9
10
11
12
⚠PCB-HEAD AMP
Q223 2SA1576®
Q206 2SA1576®
2SB1218A®
Q3200 FMG2 XN1213
Q3201 FMG2 XN1213
IC3200 BA7790FS
Q3202 2SA1576® 2SB1218A®
Q227 2SC4098® 2SC3936®
D3000 DAP202U MA142WA
VR3200 B-5K
L3201 100μH
L3200 100μH
Q212 IMD2 XN4312
Q228 IMD2 XN4312
IC201 AN3311S
Q226 DTC144EU UN5213
Q224 FMW1 XN1501
Q225 FMW1 XN1501
Q218 FMW1 XN1501
Q219 FMG2 XN1213
Q241 FMW1 XN1501
D201 DAN202U MA142WK
D202 DAN202U MA142WK
D203 DAN202U MA142WK
D204 DAN202U MA142WK
D205 DAN202U MA142WK
L211 12μH
L215 100μH
L216 330μH
AGC DET
AGC-AMP
PEAKING
ENVE COMP
ENVE DET
AMP
SW
HEAD SW
AMP(L')
AMP(R')
AMP(R)
AMP(L)
REC
PRE
VCA
ACC DET
EP
A-L
A-C
A-R
GND (A)
EP-L
EP-C
EP-R
GND (V)
SP-R
SP-C
SP-L
GND (V)
FE-E(H)
FE-E(C)
HD
DECK
TP-2Y
TP-3X
TP-2Y
TP-2X
HT
AL
SR
AR
SR
6HL
6HR
2HR
2HL
SR
FE-E
Y (PCB-SIGNAL)
VDN
SWSD
L4101 NFM41R10C223
L4102 NFM41R10C223
L4103 NFM41R10C223
L4002 K-100μH
L4003 K-100μH
L4004 K-100μH
INT (PCB-SIGNAL)
SYNC-DET
TLA-ENA
SW5-2
GD19
H-SYNC
TLP-W/B
TLP-W
TLP-Y
TLP-C
R
G
B
KIL
CMR-Y (LPF)
HA4
HA5
WB2
HDN
SDTP
VDN
CSYN
KILP
CDAT
GND
SHBW
FRC
YDAT
RDM
CONT
GDM
BDM
CMYP
IC4003 LM311PS
Q4001 IMZ1 XN4601

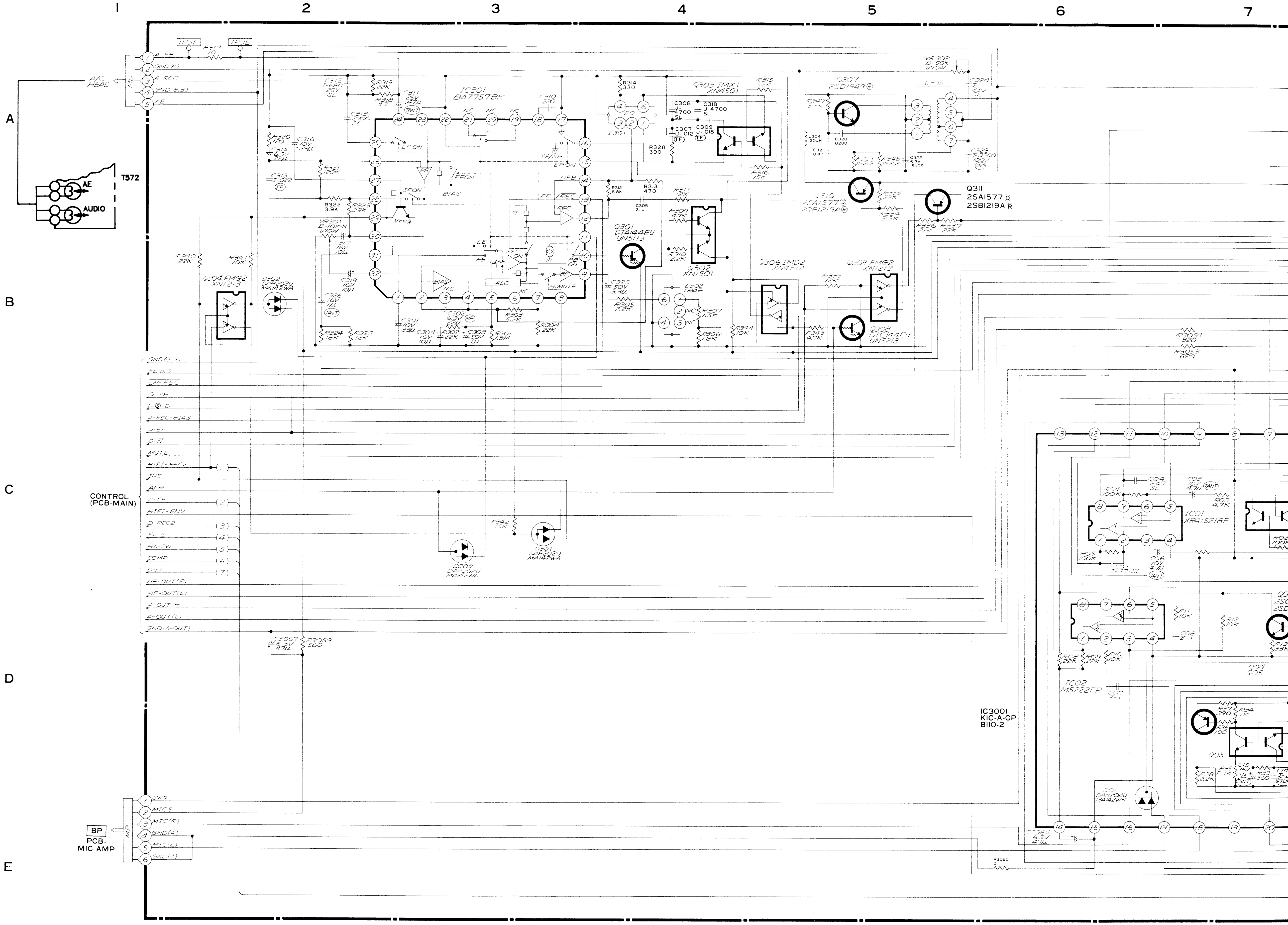

9
10
11
12
13
14
15
16
⚠PCB-HEAD AMP
⚠TELOP(PCB-SIGNAL)
Y (PCB-SIGNAL)
INT (PCB-SIGNAL)
Y (PCB-SIGNAL)
VDN
SWSD
SYNC-DET
TLA-ENA
SWS-2
GDIG
H-SYNC
TLP-W/B
TLP-W
TLP-Y
TLP-C
R
G
B
KIL
CMR-Y(LPF)
L4101 NFM41R10C223
L4102 NFM41R10C223
L4103 NFM41R10C223
L4002 K-100μH
C4001 6.3V 47μ
C4002 1032
R4020 0
R4021 100K
R4023 100K
R4025 100K
R4039 330K
R4037 330K
R4035 330K
R4033 330K
R4040 330K
R4038 330K
R4036 330K
R4034 330K
R4032 15K
R4031 100K
R4030 15K
R4029 56K
IC4001
M60030-0111FP
HA4
HAS
WB2
HDN
SDTP
VDN
CSYN
KILP
CDAT
GND
SHBW
FRC
YDAT
RDM
CONT
GDM
BDM
CMYP
HVEP
VA0
TM0
VA1
VA2
VA3
VA4
VDD
VA5
VA6
VA7
SAB
WEN
TM1
OEN
HA3
HA2
HA1
WB1
HA0
WB0
VDD
D8
D7
D6
D5
D4
D3
D2
D1
WSQC
MCLK
PRI
MDAT
STRB
BLKW
RCKR
GND
RCKI
TM2
HDPD
DSCN
HDP
PBCM
RGBP
NPAL
D-CLK
D-DATA
D-STB
D-PCONT
D-CS
R4011 4.7K
R4010 2.2K
C4004 22P CH
L4003 K-100μH
C4007 6.3V 47μ
C4008 1032
R4006 4.7K
IC4003
LM311PS
C4009 1032
R4001 12K
R4004 10K
R4026 2.7KF
R4003 12K
Q4001
IMZ1
XN4601
R4005 47K
C4010 3332
C4011 6.3V 22μ
L4004 K-100μH
C4012 6.3V 47μ
C4013 3332
R4007 100K
IC4002 MSM5256VP-12LL
A10
CS
DQ8
DQ7
DQ6
DQ5
DQ4
GND
DQ3
DQ2
DQ1
A0
A1
A2
OE
A11
A9
A8
A13
WE
Vcc
A14
A12
A7
A6
A5
A4
A3
C4005 1032
IC4004
SC7S00F
C4006 56P CH
L4001 J-3.3μH
VC4001 25P
C3207 6.3V 47μ
C3206 Z-.01
L3201 100μH
EP
A-L
A-C
A-R
GND(A)
EP-L
EP-C
EP-R
GND(V)
SP-R
SP-C
SP-L
GND(V)
FE-E(H)
FE-E(C)
HD
DECK
TP-3Y
TP-3X
TP-2Y
TP-2X
HT
AL
SR
AR
SR
6HL
6HR
2HR
2HL
SR
FE-E
R274 10K
R284 100K

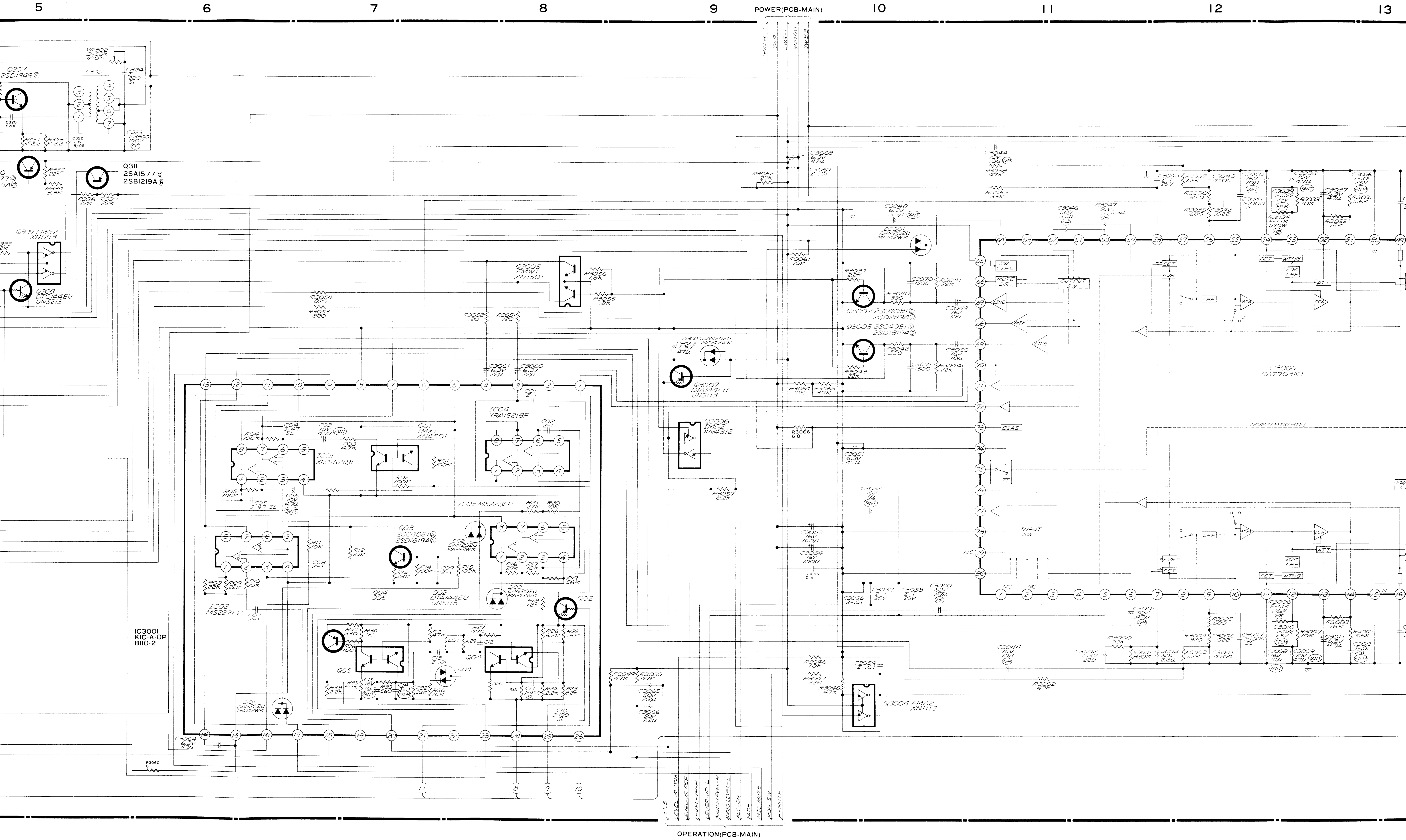
HS-C50A
HS-C50B
HS-C50E(5/10)


1
2
3
4
CONTROL(PCB-MAIN)⚠
6
7
8
⚠PCB-MIC AMP
A
B
C
D
E
J3300
MIC+B JACK
J3301
MIC JACK
NC
R3315
470
C3300
1000
R3300
47K
C3301
1000
R3301
47K
C3302
J-0.018-25V
FILM
C3303
J-0.018-25V
FILM
OFF
ON
S3300
R3303
22K
R3305
15K
C3305
J-0.082-25V
FILM
C3307
J-0.082
25V
FILM
R3307
47K
C3311
4V
10μ
TANT
R3309
270
C3313
820
R3311
15K
C3315
16V-1μ
TANT
C3309
35V
0.1μ
TANT
R3313
120K
IC3300
BA328F
L3300
100μ
R3314
100
C3317
0.01-Z
VCC
C3303
35V
0.1μ
TANT
C3304
J-0.082-25V
FILM
C3306
J-0.082
25V
FILM
R3312
120K
C3314
16V-1μ
TANT
C3316
16V
47μ
R3310
15K
C3312
820
R3304
15K
R3302
22K
R3306
47K
R3308
270
C3310
4V
10μ
TANT
SW9
MIC5
MIC-R
GND(A)
MIC-L
GND(A)
BP
MP
AUDIO
(PCB-MAIN)
SM
INT
(PCB-SIGNAL)
MM
MS
G DIG
GND
L-OUT
R-OUT
O-EE
GND(A)
SW5-2
EVF-5
SW9
SW9
SW5-1
SW5-1
S-DETAIL
GND
GND
GND
G-(YOUT)
Y OUT
C OUT
G(COUT)
END-SENS
I-Ⓓ-D
RIS
G BATT
DEW
SW5-2
TU-REEL
C-SW
S-REEL
LED-A
LED-K
P2
G BATT
P3
P1
Po
J450
HEAD-PHONE
C450
K-1000P
C451
K-1000P
J451
EDIT
R5K4
1K
D450
RD7.5MB2
D451
RD7.5MB2
D452
RD7.5MB2
D453
RD7.5MB2
D587
RD7.5MB2
Q450 DTA144EU
UN5113
R451
68
R452
68
C453
K-0.01P
25V
C454
6.3V
330μ
C455
6.3V
330μ
J452
S-OUT
R5B4
47K
R5B5
47K
R5B6
47K
R5B7
47K
R5B8
47K
R5B9
47K
VR450
B-100K
STILL-ADJ
R450
3.9K
C452
J-0.1
FILM
R5A6
6.8K
R5A1
B-100K
C5B4
J-0.068
25V
FILM
C5B2
6.3V
47μ
C5B3
Z-0.1
HIFI-R
A-REC
O-REC
VTR-P
O-L
O-UL
PG-MM
AVSS
VCC
AVCC
VREF
LPSS
CTL REC
O-EDIT
TU-REEL
SU-REEL
R5A8
27K
R5G1
10K
R5D3
680
R5D2
68K
C5D1
16V
100μ
Q5A2
VY1
ZN4501
Q5B2
DTC144EU
UN5213
R5D4
47K
R5K6
1K
R5D6
680
R5D5
68K
R5E1
47K
R5D7
150
R5D0
120
R5G4
10K
R5G0
47K
Q5A0
2SD1819A
R5B3
47K
Q5A5 2SB1218A
M/C5
R570
47K
R5D8
47K
R5D9
4.7K
Q5A4 2SD1819A
IC5A2
LM393M
R5A5
470K
R5A0
47K
R5A1
47K
R5A4
56K
R5C1
15K
R5C2
1.5K
C5A2
K-0.015
R5C5
270K
R5A2
27K
R5A3
F-47K
R5C3
1.5K
C5A0
K-0.056
R5C0
1.2M
D5B3
DAP202U
MA102WA
Q5B1 DTA144EU
UN5113
R5H7
10K
R5F0
33K
D5B1
RD7.5MB2
D5B0
RD7.5MB2
R5A7
47K
D586
RD7.5MB2
D584
DAN202U
MA142WK
R5H0
82K
IC5A1
MC14077BF
VDD
R5K5
1K
R5K1
82
O-2H
Q5B0 DTA144EU
UN5111
R5T1
10K
R5F5
6.8K
R5F6
33K
C5A6
J-220
R5F1
120K
R5F3
22K
C5F4
J-1500
R5F2
270K
R5F4
120K
C5A5
K-1000
Q5A3 IMZ1
ZN4601
(2)
(5)
(3)
(4)
(6)
(7)
(34)
(32)
(33)
(37)
(38)
38
37
HA SW
COMP
FE B3
GHD(B3)
HPOUT(L)
HPOUT(R)
F-E
HIFI REC2
A-REC2
2-REC
Po
P1
P3
G BATT
P2
LED-K
LED-A
S-REEL
C-SW
TU-REEL
SW5-2
DEW
G BATT
RIS
I-Ⓓ-D
END-SENS
SW574
SW
-MODE
R571
390
Q571
SUP-REEL-SENS
R572
0Ω
SW573
C-SW
TU-REEL-SENS
Q572
SW571
R-I-SW
SW572
Ⓓ-SW
D571
C-LED
Q573
END-SENS
DEW-SENS
Z571
DECK

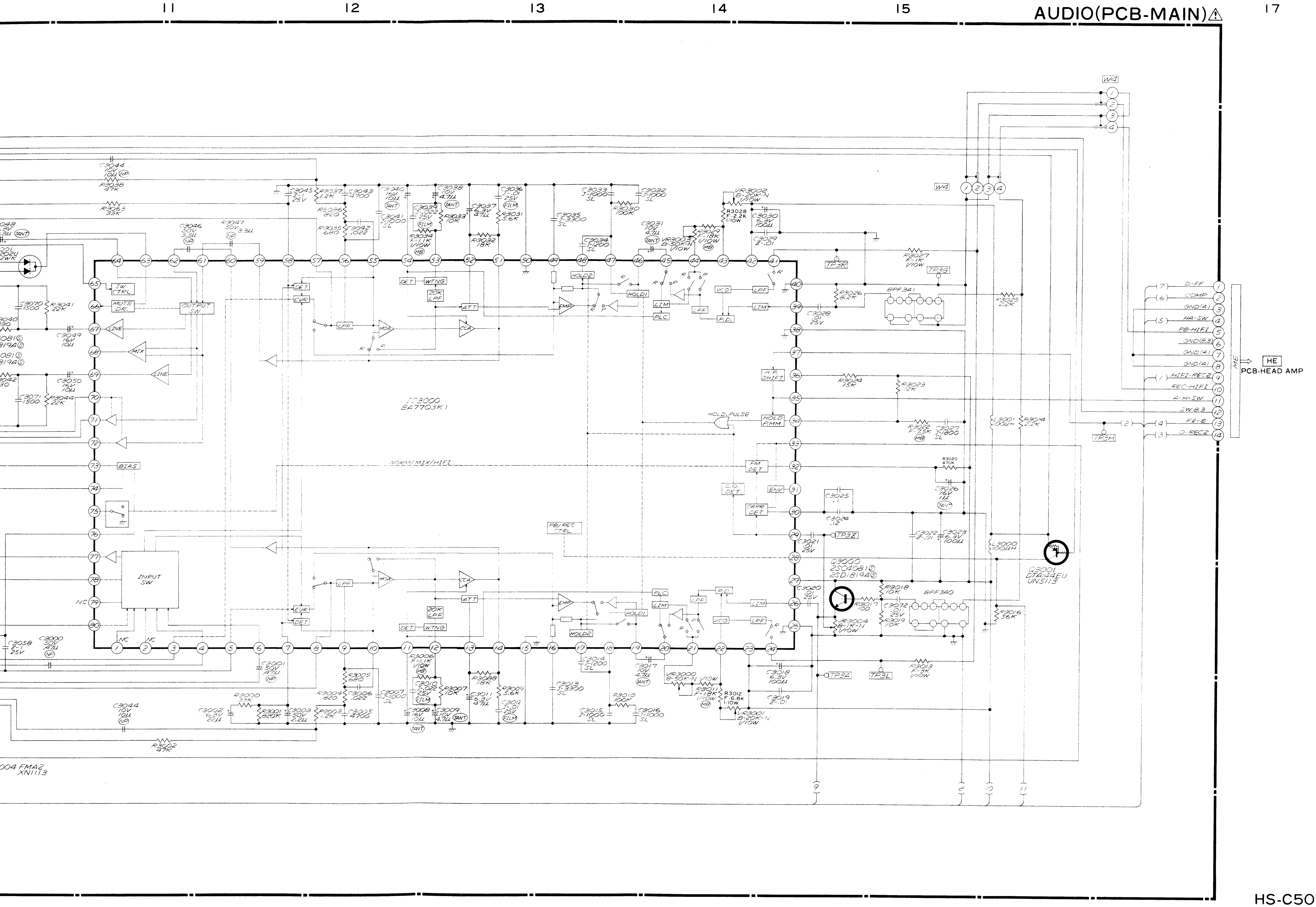
6
7
8
9
10
11
12
13
IC5A0
M37405M5-127FP
TP5A PLAY
5.0Vp-p(V)
TP5A
TP5B
J4S0
HEAD-PHONE
C4S0 K-1000P
C4S1 K-1000P
J4S1
EDIT
R5K4 1K
D4S0 RD7.5MB2
D4S2 RD7.5MB2
D4S3 RD7.5MB2
R5B4 47K
R5B5 47K
R5B6 47K
R5B7 47K
R5B8 47K
R5B9 47K
VR4S0 B-100K
STILL-ADT
R4S0 3.9K
C4S2
FILM
R5A6 6.8K
VR5A1 B 100K
C5B4 J-.068 25V
C5B2 6.3V 47μ
C5B3
C5S5 6.3V 330μ
R5A8 27K
R5G1 10K
C5D1 16V 100μ
R5D3 680
R5D2 68K
Q5A2 IMX1 XN4501
Q5B2 DTC144EU UN5213
R5D4 47K
R5D1 47K
R5D6 680
R5D5 68K
R5D7 150
R5D0 120
Q5A5 2SB1218A
M/CS
R5T0 47K
R5D8 47K
R5D9 4.7K
Q5A4 2SD1819A
R5G4 10K
R5G0 47K
R5H7 10K
R5F0 33K
R5K0 15K
D5B1 RD7.5MB2
R5A7 47K
D5B0 RD7.5MB2
Q5B1 DTA144EU UN5113
R5H0 82K
VDD
GND
R5K1 82
Q5A3 IMZ1 XN4601
Q5B0 DTA144EU UN5111
R5T1 10K
R5F5 6.8K
R5F6 33K
C5A6 J-220
R5F1 120K
R5F3 120K
R5F2 270K
C5A4 J-1500
C5A5 K-1000
R5F4 120K
O-2H
D5A0 DAP202U MA142WA
R5H9 15K
G BATT
SW5 2
C5A5 K-330
R4A0 100K
R4A1 68K
Q4C1 DTA144EU UN5113
D4D0 DAN202U MA142WK
R4A2 270K
R4A3 330K
Q4B1 DTA144EU UN1113
Q4B2 DTA144EU UN5113
R4B2 5.6K
Q4E0 FMA2 XN5113
R4B0 150K
R4B1 100K
R4B8 10K
IC4A0 M5223FP
R4A4 56K
R4A6 330K
R4A5 150K
R4A7 33K
R4A8 4.7K
C4A4 16V 47μ
C4A3 16V 47μ
C4A2 25V
C4A1 .056
C4A0 5600
R4B3 150K
R4B5 220K
R4B4 150K
R4B6 56K
R4B7 5.6K
C4B4 6.3V 22μ
C4B3 6.3V 22μ
C4B2 .015P
C4B1 K-1000P
C4B0 K-1000P
VCC
GND
R4C1 27K
C4C0 1μ
NP
IC4A2 TA7291S
R4F4 10K
R4F3 10K
C4F0 16V 47μ
R4F7 8.2K
D4F0 RD6.8MB1
Q4F1 DTC114EK
R4F0 1.5K 1/8W
R4F1 4.7K
Q4F0 2SB1142L
C5B0 J-18 CH
X5A0 8MHz
R5H1 1M
C5B1 J-18 CH
H.IFI-REC2
A-REC-BIAS
O-REC2
VTR-PWR
O-L
O-UL
PG-MM
AVSS
VCC
AVCC
VREF
CPSS
CTL-REF
O-EDIT
TU-RELL
SU-RELL
D-ON
MUTE
O-N
O-2H
O-EE
O-REC
O-FE
VSS
X OUT
X IN
M/C RESET
CN VSS
V-SYNC
STILL-ADJ
H.IFI-ENV
V-ENV
CP-FG
O-FF
R CTL
REC DUTY
CASSETTE SW
DEW
CP-FULL
CP-ADJ
O EJSOL
CR-ADJ
TO AUDIO
(PCB-MAIN)
MG
SG
Y
(PCB-SIGNAL)
TO OPERATION
(PCB-MAIN)
HA-SW
COMP
FEB3
SAO(B.3)
HPOUT(L)
HPOUT(R)
F2-E
H.IFI REC2
A-REC-BIAS
O.REC
H.I-REC
H.IFI ENV
O-2H
A-FF
A-FE
IQ-O
INS
ALR
MUTE
O-N
O-EE
AOUT(R)
SAO(AOUT)
AOUT(L)
O-FB
O-REC
EDIT
15-V-SYNC
O-2H
H.Q-V-SYNC
STOP-UP
G BATT
T-MA
V-SYNC
DATE-N
DATE-W
NC
S-SW
O-EE
O-FF
V-SYNC
H.CTL
O-2H
O-EDIT
A-FF
REC-DUTY
CP-FG
M/C-CLK
SB
SA
TU-REEL
SU-REEL
M/C RESET
O-REC2
STBYS
M/CS
O-N
REMOTE
SW5 2
G BATT
5.6V
CHR-PWR
BATT AC
VL3
VR(ROT)


10
11
12
13
14
15
16
17
MA②PLAY
5.0Vp-p(V)
MA③PLAY
(V)
MA④REC
5.0Vp-p
0.1msec
MA⑤REC
5.0Vp-p
0.5msec
MA⑥REC
5.0Vp-p(V)
AA
PCB-MDA
AC
PCB-MDA
M
LOADING MOTOR
TO POWER (PCB-MAIN)
TO OPERATION (PCB-MAIN)
MG
SG
Y (PCB-SIGNAL)
IC5A0
M37405M5-127FP
IC4A0 M5223FP
IC4A2 TA7291S
Q4C1 DTA144EU UN5113
D4D0 DAN202U MA142WK
Q4B1 DTA144EU UN1113
Q4E0 FMA2 XN5113
Q4B2 DTA144EU UN5113
Q4C0 IMZ1 XN4601
Q4F1 DTC114EK
Q4F0 2SB1114ZL
D4C1 DA204U
D4F0 RD6.8MB1
D5A0 DAP202U MA142WA
X5A0 8MHz
C5B5
R4A0 100K
R4A1 68K
R4A2 270K
R4A3 330K
R4B2 5.6K
R4B0 150K
R4B1 100K
R4B8 10K
R5C4 10K
R4C0 560
R4C5 10K
R4C9 10K
R4C3 10K
R4C1 27K
R4C6 4.7K
R4C7 4.7K
R4C8 10K
R4F6 10K
C4F2 1000P
R4F4 10K
R4F3 10K
R4F7 8.2K
C4F0 16V 47μ
R4F0 1.5K
R4F1 4.7K
R5H8 47K
R5C7 47K
R5H9 15K
R5K0 1.5K
R5H1 1M
C5B0
C5B1
TP5A
TP5B
TP4N
M/CS
G.BATT
R-CTL
PB-CTL
CTL-RES
CP-FG
D-FG
PG
CP-B
DIR
DR-ADJ
D-ERROR
V.REF
CP-ERROR
VERR-CP
VCP
VSP
G.CP
G.CP
SWS-2
GND
GND
VD
VD
GD
GD
VERR-D
SWS-2
D-ON
V-REF
FE 8.3
GND(8.3)
LOAD
UN LOAD
NC
G.MOTOR
9.6V
VCP
VERR-CP
G.CP
VD
VERR-D
GD
G.DIG
EVFS
SW9
SWS-2
SWS-1
GND
GND
G.BATT
STBY-5
VTR PWR
CMR PWR
BATT AC
LL3
V(PROT)
MA
MC
ML
D-FG
PG
P0
P1
P2
P3
CASSETTE SW
REC
DEW
ES
CP-B
CP-FWD
CP-ON
CP-FULL
CP-ADJ
D.6MSL
DR-ADJ
2ND R.ADJ
TR.CTL
D-ON
MUTE
O-N
O-2H
O-EE
O-REC
O-FB
VSS
X OUT
X IN
M/C RESET
CN VSS
V-SYNC
STILL-ADJ
D-FF
PB-CTL
R CTL
REC DUTY
E-LED
AFR
D-SL
SYNC
V-SYNC
AOUT(R)
GND(AOUT)
AOUT(L)
O-PB
O-REC
ROT
D.O.P
EDIT
SS-V-SYNC
O-2H
HQ-V-SYNC
D.O.P-UP
DET
SYNC
HAFA
F.SYNC
O-N
DATE-N
DATE-W
VC
S-SW
O-EE
O-FF
V-SYNC
H-CTL
O-2H
O-EDIT
A.FF
REC DUTY
CP-FG
M/C CLK
SB
SA
SU-REEL
M/C RESET
M/C ECL
STBYS
M/CS
O-D
O-N
H.AMCON
EDIT
SYNC DET
HAFA
H-SYNC
DATE-N
DATE-W
L.INV
SEMOTE
SWS-2
G.BATT
9.6V
CMR PWR
BATT AC
LL3
V(PROT)


1
2
3
4
5
6
7
A
B
C
D
E
A/C HEAD
MC
A FE
GND(A)
A-REC
GND(8.3)
AE
TP5F
TP3E
R317 10
T572
AE
AUDIO
IC301 BA7757BK
C312 J-680 25V SL
R319 22K
R318 47
C311 25V .47µ TANT
C313 2700 SL
C310 220
NC
EP ON
EP/SP
PB
EEON
BIAS
SPON
Vreg
R320 120
C316 10V 33µ
C314 6.3V 22µ
C315 J-.022 TF
R321 120K
R322 3.9K
R323 3.9K
VR301 E-10K-N V/10W
C317 16V 10µ
C319 16V 10µ
C326 16V 1µ TANT
R324 18K
R325 12K
C301 10V 33µ
C302 6.3V 22µ NP
C304 16V 10µ
R302 22K
C303 50V 1µ
R301 1.8M
R303 8.2K
R304 22K
N.C
ALC
EE
LINE
REC ON
PB ON
BF
H:MUTE
NFB
EE /REC
REC
R340 22K
R341 10K
Q304 FMG2 XN1213
D302 DAP202U MA142WA
R314 330
EQ
L301
C308 J-4700 SL
C318 J-4700 SL
C307 J-.012 TF
C309 J-.018 TF
R328 390
Q303 IMX1 XN4501
R315 15K
R316 15K
R312 6.8K
R313 470
C305 Z-1µ
R311 12K
R309 4.7K
R310 2.2K
Q301 DTA144EU UN5113
Q302 XN1501
C325 50V 3.3µ
R305 2.2K
L302 TRAP
R307 1.5K
R306 1.8K
R344 10K
Q306 IMD2 XN4312
R332 12K
R343 4.7K
Q309 FMG2 XN1213
Q308 DTC144EU UN5213
Q307 2SD1949 R
R347 3.3K
L304 120µH
C320 8200
C321 0.47
R341 K-2.2
R348 K-2.2
C322 6.3V 15µOS
L303
VR302 B-50K V/10W
C324 J-220 SL
C323 J-3300 100V PP
Q310 2SA1577 Q 2SB1219A R
R335 22K
R334 3.3K
Q311 2SA1577 Q 2SB1219A R
R336 22K
R337 22K
R3054 820
R3053 820
CONTROL (PCB-MAIN)
GND(8.3)
FE 8.3
LN-REC
O 2H
1-S-D
A-REC-BIAS
D-EE
O-N
MUTE
HIFI-REC2
INS
AFR
A-FF
HIFI-ENV
O REC2
F/E
HA-SW
COMP
D-FF
HP-OUT(R)
HP-OUT(L)
A-OUT(R)
A-OUT(L)
GND(A-OUT)
R342 15K
D303 DAP202U MA142WA
D301 DAP202U MA142WA
C3067 6.3V 47µ
R3059 560
BP
PCB-MIC AMP
MP
SW9
MIC5
MIC(R)
GND(A)
MIC(L)
GND(A)
IC3001 KIC-A-OP B110-2
C04 J-47 SL
R04 100K
C03 10V 4.7µ TANT
R03 4.7K
IC01 XRA15218F
R02 100K
R05 100K
C05 J-47-SL
C06 10V 4.7µ TANT
R11 10K
C08 Z-1
R12 10K
R13 33K
R08 22K
R09 22K
R10 10K
IC02 M5222FP
C07 Z-1
Q04
Q05
R37 390
R34 1K
R36 100
Q05
R38 2.2K
R35 F-1K
C15 16V 1µ TANT
R33 560
C14 FILM
D01 DAN202U MA142WK
C3064 6.3V 47µ
R3060 0

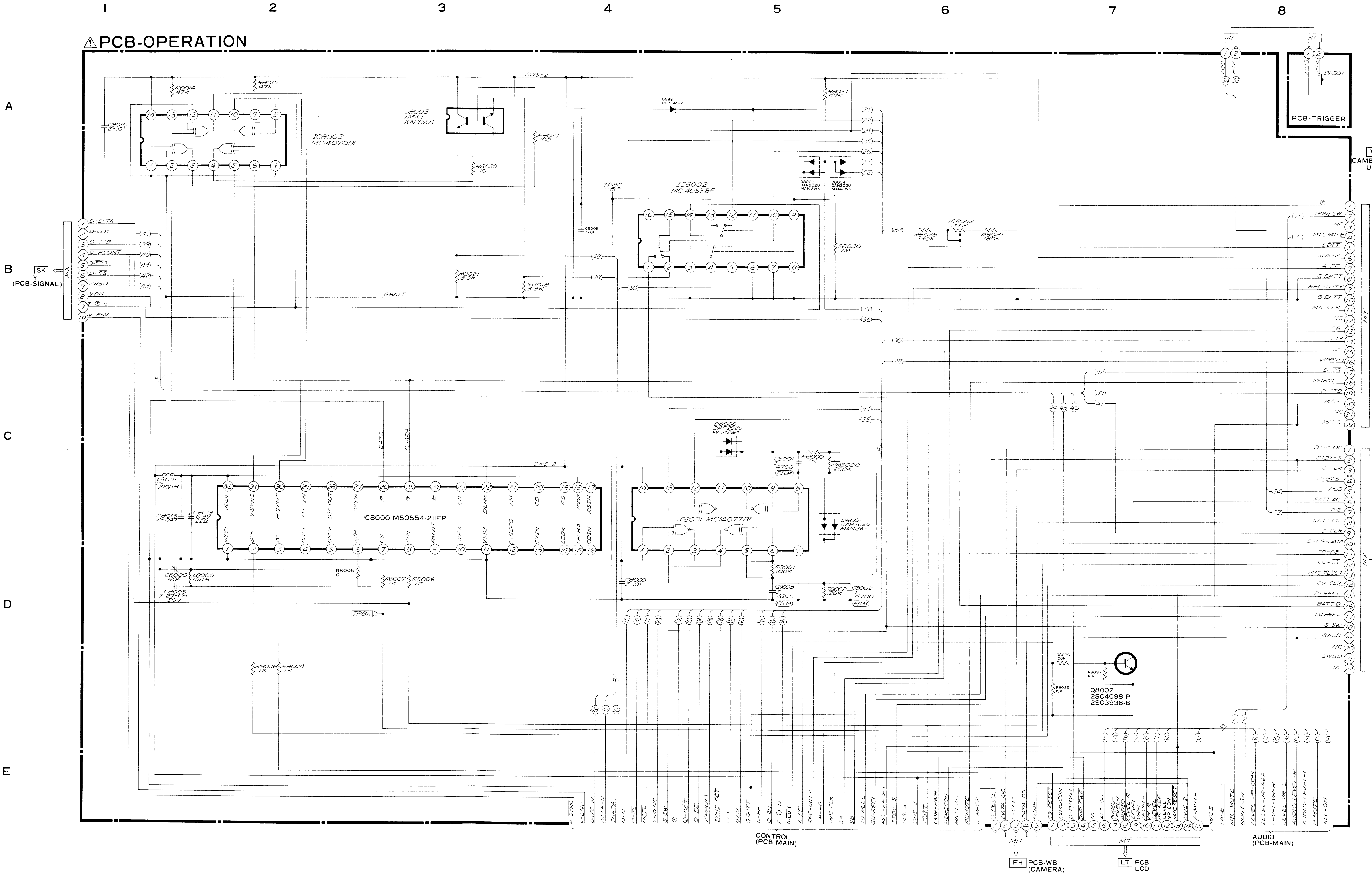

5
6
7
8
9
POWER(PCB-MAIN)
10
11
12
13
VR302
Q307
2SD1949
C320 8200
C322 6.3V
Q311
2SA1577 Q
2SB1219A R
Q309 FMG2 XN1213
Q308 DTC144EU UN5213
Q3005 FMW1 XN1501
R3056 1.8K
R3055 1.8K
R3054 820
R3053 820
R3052 120
R3051 120
C3061 6.3V 22μ
C3060 6.3V 22μ
IC04 XRA15218F
IC01 XRA15218F
Q01 IMX1 XN4501
R02 100K
R01 100K
IC03 MS223FP
Q03 2SC4081 2SD1819A
R13 33K
R14 100K
R15 100K
Q04 Q05
Q02 DTA144EU UN5113
IC02 MS222FP
D02 DAN202U MA142WK
D03 DAN202U MA142WK
D01 DAN202U MA142WK
Q02
Q05
Q04
D04
IC3001 KIC-A-OP B110-2
R3060
C3049 47K
R3050 47K
C3065 50V 2.2μ
C3066 50V 2.2μ
Q3000 DAN202U MA142WK
Q3007 DTA144EU UN5113
Q3006 IMD2 XN4312
R3057 8.2K
R3066 6.8
R3062 27K
C3068 6.3V 47μ
R3061 10K
C3048 6.3V 3.3μ TANT
D3201 DAN202U MA142WK
R3039 22K
Q3002 2SC4081 2SD1819A
Q3003 2SC4081 2SD1819A
R3040 330
R3042 330
R3043 22K
C3070 1500
R3041 22K
C3071 1500
R3044 22K
R3064 10K
R3065 3.9K
C3051 25V 47μ
C3052 16V 1μ TANT
C3053 16V 100μ
C3054 16V 100μ
C3055
C3056 Z-.01
C3057 Z-1 25V
C3058 Z-1 25V
C3000 50V 47μ NP
C3044 10V 10μ NP
R3038 47K
R3063 33K
C3046 50V 3.3μ NP
R3047 50V 3.3μ
C3045 Z-1 25V
R3037 1.2K
C3043 4700
R3036 820
R3035 6.8
C3042 .022
C3041 J-1000 SL
C3040 16V 10μ TANT
C3039 Z-022 FILM
R3034 F-11K 1/10W MB
C3038 10V 4.7μ TANT
R3033 10K
C3037 6.3V 47μ
R3032 18K
C3036 J-.01 25V FILM
R3031 5.6K
SW CTRL
MUTE DRI
OUTPUT SW
LINE
MIX
BIAS
INPUT SW
DET
WTNG
20K LPF
ATT
LPF
MOA
CCA
EVR
IC3000 BA7703K1
NORM/MIX/HIFI
C3001 50V 47μ NP
R3000
C3002 6.3V 22μ
R3001 820K
C3003 50V 2.2μ
R3004 820
R3003 1.2K
R3005 680
C3006 .022
C3005 4700
C3007 J-1000 SL
R3006 F-11K 1/10W MB
C3010 Z-.022 FILM
C3008 16V 10μ TANT
C3009 10V 4.7μ TANT
R3007 10K
R3008 18K
C3011 6.3V 47μ
R3009 5.6K
C3012 J-.01 25V FILM
R3046 18K
R3047 22K
R3048 47K
C3059 Z-.01
Q3004 FMA2 XN1113
R3002 47K
MIC
LEVEL-VR-COM
LEVEL-VR-REF
LEVEL-VR-L
LEVEL-VR-R
AUDIO-LEVEL-R
AUDIO-LEVEL-L
ALC-ON
FACE
MIC-MUTE
MON-SW
F-MUTE
OPERATION(PCB-MAIN)

AUDIO(PCB-MAIN)⚠


11
12
13
14
15
17
IC3000
BA7703K1
W4
PCB-HEAD AMP
HE
ME
D-FF
COMP
GND(A)
HA-SW
PB-HIFI
GND(B3)
GND(A)
GND(A)
HIFI-REC2
REC-HIFI
A-H-SW
SW 8.3
FR-E
D-REC2
BPF3A1
BPF3A0
Q3000
2SC4081Ⓢ
2SD1819AⓈ
Q3001
DTA144EU
UN5113
INPUT SW
OUTPUT SW
MUTE DR.
SW CTRL
LINE
MIX
BIAS
NORM/MIX/HIFI
HOLD-PULSE
HOLD PMM
H.P. SHIFT
FM DET
ENV
CARR DET
D.O. DET
FB/REC CTRL
DET
EVR
LPF
MOA
CCA
ATT
WTNG
20K LPF
EMP
HOLD1
HOLD2
LIM
PLC
VCO
P.D.
LPF
TP3A
TP3L
TP3K
TP3G
TP3H
TP3Z
VR3000
VR3001
VR3002
VR3003
VR3004
L3000
L3001
004 FMA2
XN1113

HS-C50A
HS-C50B
HS-C50E(6/10)

⚠PCB-OPERATION



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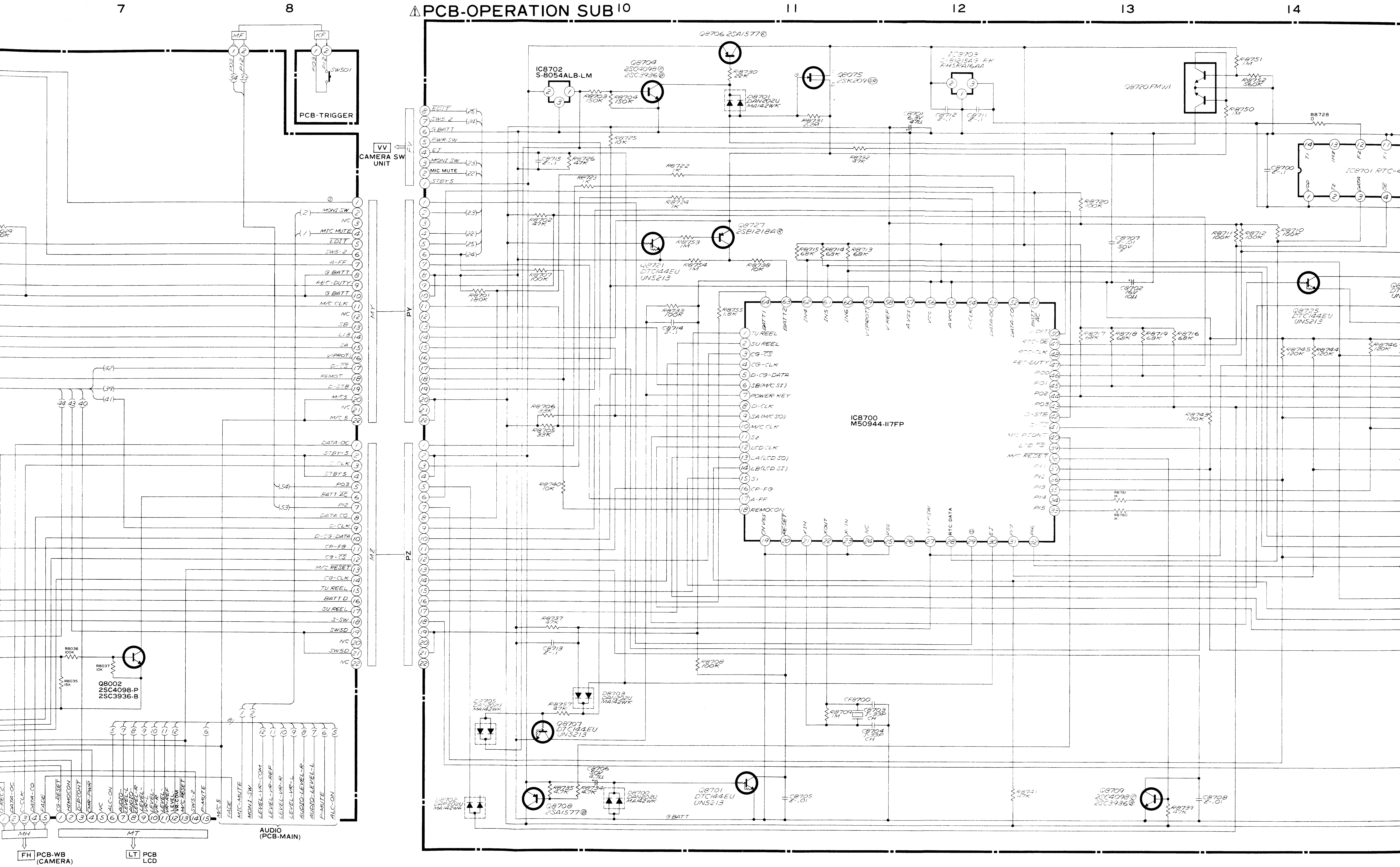
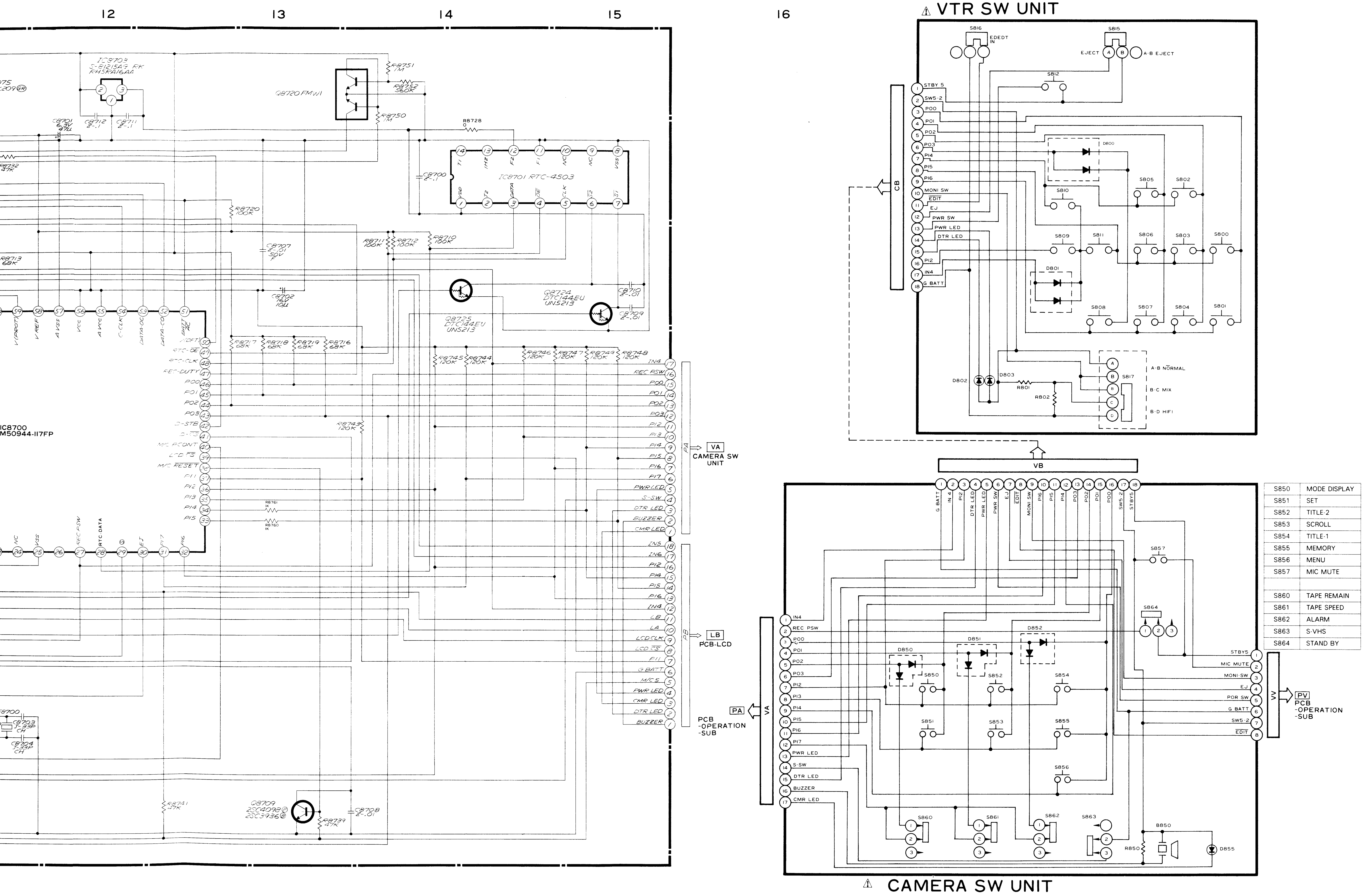
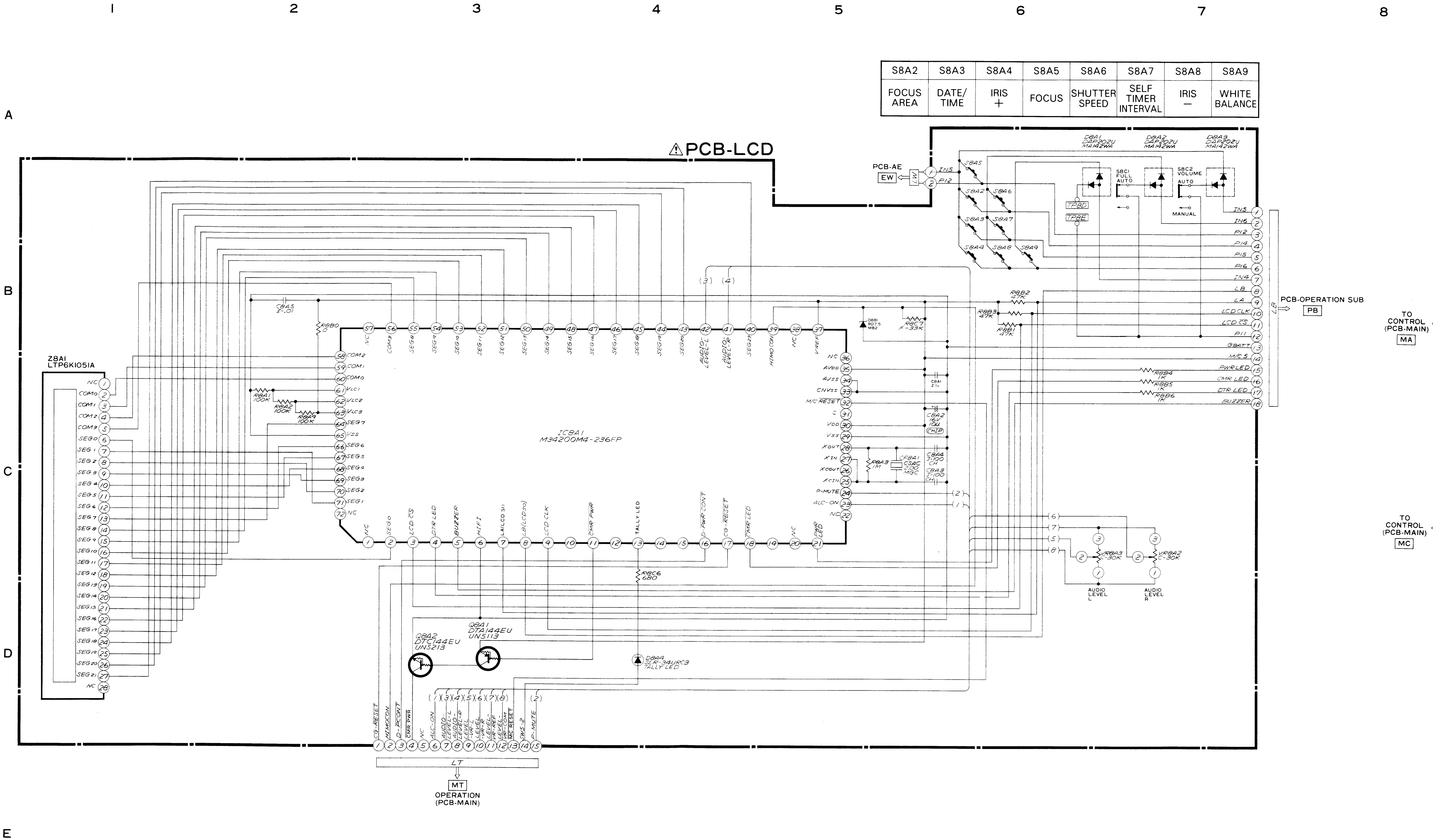
7
8
A
B
C
D
E
MF
KF
PCB-TRIGGER
SW501
P03
P12
54
53
CAME
U
IC8003
MC14070BF
R8014 47K
R8019 47K
C8016 Z-.01
Q8003
IMX1
XN4501
R8017 100
R8020 10
R8021 3.3K
R8018 3.3K
SWS-2
D588
RD7.5MB2
R8031 47K
TP8C
IC8002
MC14053BF
D8003 DAN202U MA142WK
D8004 DAN202U MA142WK
C8008 Z-.01
R8030 1M
R8028 510K
VR8002 100K
R8029 180K
GBATT
SK
(PCB-SIGNAL)
MK
D-DATA
D-CLK
D-STB
D-PCONT
O-EDIT
D-CS
SWSD
VDN
I-Ⓢ-D
V-ENV
L8001 100μH
C8015 Z-.047
C8013 6.3V 22μ
IC8000 M50554-211FP
VDD1
VSYNC
HSYNC
OSC IN
OSC OUT
CSYN
R
G
B
CO
BLNK
YM
CB
RS
VDD2
RSIN
VSS1
SCK
AC
OSC1
OSC2
VP
CS
SIN
PAOUT
SYEX
VSS2
CVIDEO
CVIN
LEBK
LECHA
CBIN
CHARA
DATE
VC8000 40P
L8000 15μH
C8005 J-27-CH 50V
R8005 0
R8007 1K
R8006 1K
TP8A
R8008 1K
R8004 1K
D8000 DAP202U MA142WA
C8001 4700 FILM
R8000 1K
VR8000 200K
IC8001 MC14077BF
D8001 DAP202U MA142WA
R8001 100K
C8000 Z-.01
C8003 8200 FILM
R8002 120K
C8002 4700 FILM
R8036 100K
R8037 10K
R8035 15K
Q8002
2SC4098-P
2SC3936-B
MY
Ⓢ
MONI SW
NC
MIC MUTE
EDIT
SWS-2
A-FF
G BATT
REC-DUTY
G BATT
M/C CLK
NC
SB
L13
SA
V(PROT)
D-CS
REMOT
D-STB
M/C5
NC
M/C 5
MZ
DATA-OC
STBY-5
C-CLK
STBY5
P03
BATT AC
P12
DATA CO
D-CLK
D-CG-DATA
CP-FG
CG-CS
M/C RESET
CG-CLK
TU REEL
BATT D
SU REEL
S-SW
SWSD
NC
SWSD
NC
H-SYNC
V-ENV
DATE-W
DATE-N
CHARA
O-N
O-SL
HCTL
V-SYNC
S-SW
Ⓢ-
Ⓢ-DET
O-EE
V(PROT)
SYNC-DET
L13
9.6V
G BATT
D-FF
O-2H
I-Ⓢ-D
O-EDIT
A FF
REC-DUTY
CP-FG
M/C-CLK
SA
SB
TU-REEL
SU-REEL
M/C-RESET
STBY-5
M/C 5
SWS-2
EDIT
CMR-PWR
HIMOCON
BATT AC
REMOTE
O-REC2
CONTROL
(PCB-MAIN)
O-REC2
DATA-OC
C-CLK
DATA-CO
FADE
MH
FH PCB-WB
(CAMERA)
CG-RESET
HIMOCON
D-PCONT
CMR-PWR
NC
ALC-ON
AUDIO-LEVEL-L
AUDIO-LEVEL-R
LEVEL-VR-L
LEVEL-VR-R
LEVEL-VR-REF
LEVEL-VR-COM
M/C RESET
SWS-2
P-MUTE
MT
LT PCB
LCD
M/C 5
FADE
MIC-MUTE
MONI-SW
LEVEL-VR-COM
LEVEL-VR-REF
LEVEL-VR-R
LEVEL-VR-L
AUDIO-LEVEL-R
AUDIO-LEVEL-L
P-MUTE
ALC-ON
AUDIO
(PCB-MAIN)


7
8
⚠PCB-OPERATION SUB
10
11
12
13
14
MF
KF
PCB-TRIGGER
SW501
VV
CAMERA SW UNIT
IC8702
S-8054ALB-LM
Q8704
2SC4098®
2SC3936®
Q8706 2SA1577®
Q8075
2SK209®
D8701
DAN202U
MA142WK
IC8703
Q8720 FMW1
IC8701 RTC-
Q8727
2SB1218A®
Q8721
DTC144EU
UN5213
Q8725
DTC144EU
UN5213
IC8700
M50944-117FP
EDIT
SWS-2
G BATT
PWR SW
EJ
MONI SW
MIC MUTE
STBY S
MY
PY
MZ
PZ
MONI SW
MIC MUTE
EDIT
SWS-2
A-FF
G BATT
REC-DUTY
M/C CLK
SB
LI3
SA
V/PROT
D-CS
REMOT
D-STB
M/CS
M/C S
DATA-OC
STBY S
C-CLK
P03
BATT DC
P12
DATA CO
D-CLK
D-CG-DATA
CP-FG
CG-CS
M/C RESET
CG-CLK
TU REEL
BATT D
SU REEL
S-SW
SWSD
NC
TU REEL
SU REEL
CG-CS
CG-CLK
D-CG-DATA
SB(M/C SI)
POWER KEY
D-CLK
SA(M/C SO)
M/C CLK
S2
LCD CLK
LA(LCD SO)
LB(LCD SI)
S1
CP-FG
A-FF
REMOCON
RTC DATA
Q8002
2SC4098-P
2SC3936-B
R8036 100K
R8037 10K
R8035 15K
D8705
DAN202U
MA142WK
D8703
DAN202U
MA142WK
Q8707
DTC144EU
UN5213
CF8700
Q8701
DTC144EU
UN5213
Q8708
2SA1577®
D8700
DAN202U
MA142WK
D8702
DAN202U
MA142WA
Q8709
2SC4098®
2SC3936®
G BATT
MH
MT
FH PCB-WB (CAMERA)
LT PCB LCD
AUDIO (PCB-MAIN)
DATA-OC
C-CLK
DATA-CO
FADE
CG-RESET
REMOCON
D-P.CONT
PWR-PWR
NC
ALC-ON
AUDIO-LEVEL-L
LEVEL-VR-R
LEVEL-VR-REF
LEVEL-VR-COM
M/C COM
SWS-2
P-MUTE
M/C S
FADE
MIC-MUTE
MONI-SW
LEVEL-VR-COM
LEVEL-VR-REF
LEVEL-VR-L
LEVEL-VR-R
AUDIO-LEVEL-R
AUDIO-LEVEL-L
P-MUTE
ALC-ON

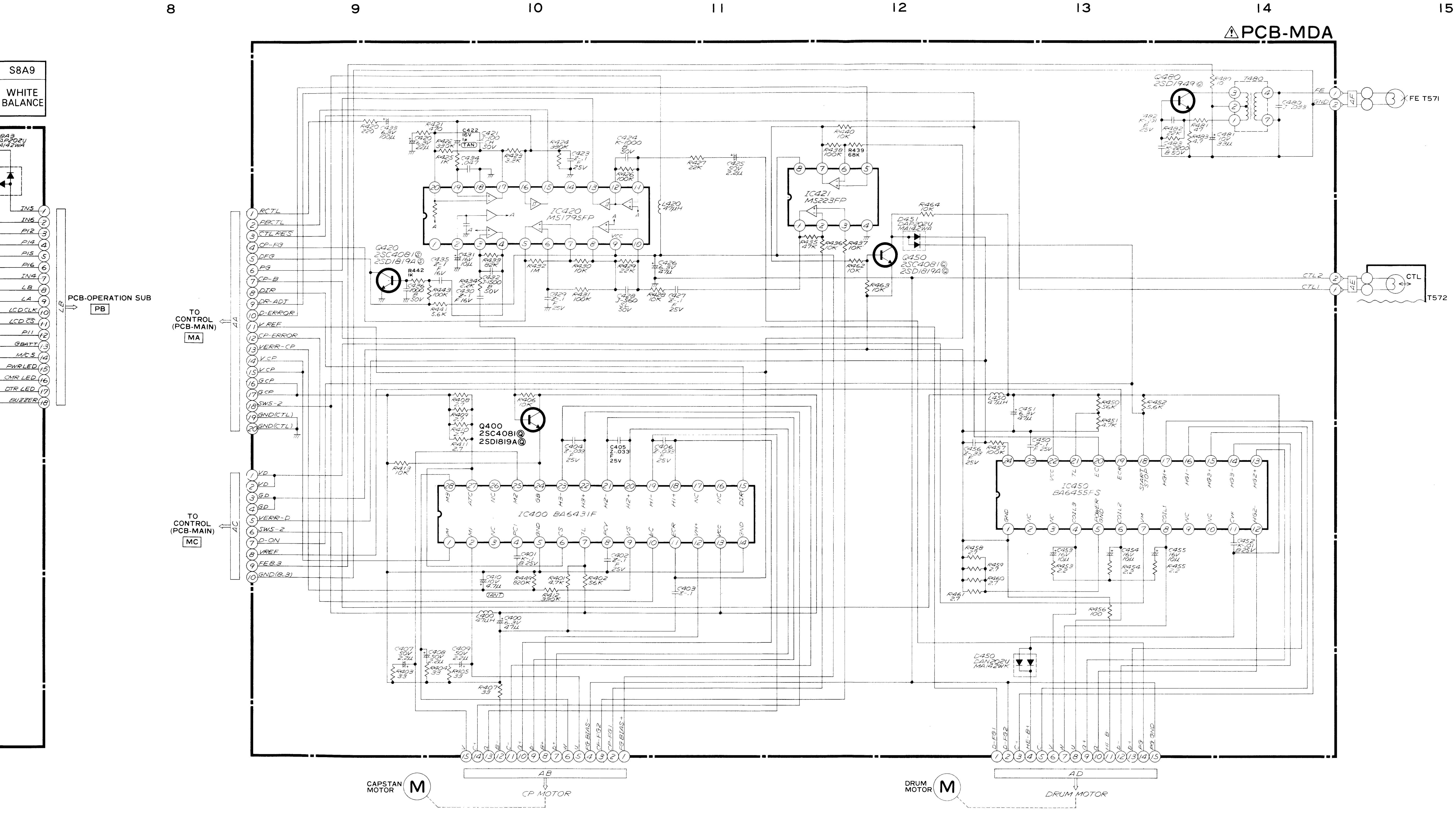

12
13
14
15
16
⚠ VTR SW UNIT
⚠ CAMERA SW UNIT
IC8703 S-81215AG RK RH5RA16AA
Q8720 FMW1
R8751 1M
R8752 560K
R8750 1M
R8728
C8701 6.3V 47µ
C8712 Z .1
C8711 Z .1
R8732 47K
IC8701 RTC-4503
C8700 Z .1
R8720 100K
C8707 Z .01 50V F
R8713 68K
C8702 6.3V 10µ
R8711 100K
R8712 100K
R8710 100K
Q8725 DTC144EU UN5213
Q8724 DTC144EU UN5213
C8710 Z .01
C8709 Z .01
R8717 68K
R8718 68K
R8719 68K
R8716 68K
R8745 120K
R8744 120K
R8746 120K
R8747 120K
R8749 120K
R8748 120K
R8743 120K
R8761 1K
R8760 1K
IC8700 M50944-117FP
V REF
A VSS
VCC
A VCC
C CLK
DATA OC
DATA CO
RTC-DATA
REC PSW
EJ
P17
P16
NC
VSS
PA
VA CAMERA SW UNIT
PB
LB PCB-LCD
PA PCB -OPERATION -SUB
IN4
REC PSW
P00
P01
P02
P03
P12
P13
P14
P15
P16
P17
PWR LED
S-SW
DTR LED
BUZZER
CMR LED
IN5
IN6
LB
LA
LCD CLK
LCD CS
F11
G BATT
M/C S
X8700
C8703 J 33P CH
C8704 J 33P CH
R8741 47K
Q8709 2SC4098 2SC3936
R8739 47K
C8708 Z .01
CB
S816 EDEDT IN
S815 EJECT A B A-B EJECT
S812
STBY 5
SW5-2
MONI SW
EDIT
EJ
PWR SW
G BATT
D800
S805
S802
S810
S809
S811
S806
S803
S800
D801
S808
S807
S804
S801
D802
D803
R801
R802
S817
A-B NORMAL
B-C MIX
B-D HIFI
VB
VA
D850
D851
D852
S850
S851
S852
S853
S854
S855
S856
S857
S864
S860
S861
S862
S863
B850
R850
D855
STBY5
MIC MUTE
MONI-SW
POR SW
EDIT
PV PCB -OPERATION -SUB

S850	MODE DISPLAY
S851	SET
S852	TITLE-2
S853	SCROLL
S854	TITLE-1
S855	MEMORY
S856	MENU
S857	MIC MUTE
S860	TAPE REMAIN
S861	TAPE SPEED
S862	ALARM
S863	S-VHS
S864	STAND BY

S8A2	S8A3	S8A4	S8A5	S8A6	S8A7	S8A8	S8A9
FOCUS AREA	DATE/ TIME	IRIS +	FOCUS	SHUTTER SPEED	SELF TIMER INTERVAL	IRIS —	WHITE BALANCE



1
2
3
4
5
6
7
8
A
B
C
D
E
⚠PCB-LCD
PCB-AE
EW
PCB-OPERATION SUB
PB
TO CONTROL (PCB-MAIN)
MA
TO CONTROL (PCB-MAIN)
MC
MT
OPERATION (PCB-MAIN)
LT
LW
LB
Z8A1
LTP6K1051A
IC8A1
M34200M4-236FP
Q8A1
DTA144EU
UN5113
Q8A2
DTC144EU
UN5213
D8A1
DAP202U
MA142WA
D8A2
DAP202U
MA142WA
D8A3
DAP202U
MA142WA
D8A4
SLR-34URC3
TALLY LED
D8B1
RD7.5
MB2
S8C1
FULL AUTO
S8C2
VOLUME
AUTO
MANUAL
TP8D
TP8E
VR8A3
C-30K
VR8A2
C-30K
AUDIO LEVEL L
AUDIO LEVEL R
R8A1
100K
R8A2
100K
R8A9
100K
R8B0
0
R8B1
47K
R8B2
47K
R8B3
47K
R8B4
1K
R8B5
1K
R8B6
1K
R8C6
680
R8C7
F-33K
R8A3
1M
C8A5
Z-.01
C8A1
Z-1μ
C8A2
16V
10μ
CHIP
C8A4
J-100
CH
C8A3
J-100
CH
CF8A1
CSAC
3.00
MGC
INS
IN5
IN6
IN4
P12
P14
P15
P16
P11
LB
LA
LCD CLK
LCD CS
GBATT
M/CS
PWR LED
CMR LED
DTR LED
BUZZER
CG-RESET
HIMOCON
D-PCONT
CMR PWR
NC
ALC-ON
AUDIO-LEVEL-L
AUDIO-LEVEL-R
VR-L LEVEL
VR-R LEVEL
VR-REF
VR-COM
MC RESET
XWS-2
P-MUTE
COM0
COM1
COM2
COM3
SEG0
SEG1
SEG2
SEG3
SEG4
SEG5
SEG6
SEG7
SEG8
SEG9
SEG10
SEG11
SEG12
SEG13
SEG14
SEG15
SEG16
SEG17
SEG18
SEG19
SEG20
SEG21
VLC1
VLC2
VLC3
VSS
AVDD
AVSS
CNVSS
M/C RESET
C
VDD
XOUT
XIN
XCOUT
XCIN
V-REF
HIFI
LA(LCD SI)
LB(LCD SO)
TALLY LED
D-PWR CONT
FMR LED

8
9
10
11
12
13
14
15
⚠PCB-MDA
S8A9
WHITE BALANCE
PCB-OPERATION SUB
PB
LB
TO CONTROL (PCB-MAIN)
MA
AA
TO CONTROL (PCB-MAIN)
MC
AC
RCTL
PBCTL
CTL RES
CP-FG
DFG
PG
CP-B
DTR
DR-ADJ
D-ERROR
V.REF
CP-ERROR
VERR-CP
V.CP
V.CP
G.CP
G.CP
SWS-2
GND(CTL)
GND(CTL)
VD
VD
GD
GD
VERR-D
SWS-2
D-ON
VREF
FE8.3
GND(8.3)
IN5
IN6
P12
P14
P15
P16
IN4
LB
LA
LCD CLK
LCD CS
P11
GBATT
M/CS
PWR LED
CMR LED
DTR LED
BUZZER
IC420 M51795FP
IC421 M5223FP
IC400 BA6431F
IC450 BA6455FS
Q420 2SC4081(S) 2SD1819A(S)
Q400 2SC4081Q 2SD1819AQ
Q450 2SC4081(Q) 2SD1819A(Q)
Q480 2SD1949(S)
D451 DAP202U MA142WA
D450 DAN202U MA142WK
T480
FE
GND
AF
FE T571
CTL2
CTL1
AE
CTL
T572
L420 47μH
L450 47μH
L400 47μH
R442 1K
R464 10K
R440 10K
R438 100K
R439 68K
R427 22K
C425 50V 2.2μ
R456 100
R407 33
CAPSTAN MOTOR
M
AB
CP MOTOR
DRUM MOTOR
M
AD
DRUM MOTOR
CP BIAS+
CP-FG1
CP-FG2
CP BIAS-
D-FG1
D-FG2
HE-B1
FG GND

A

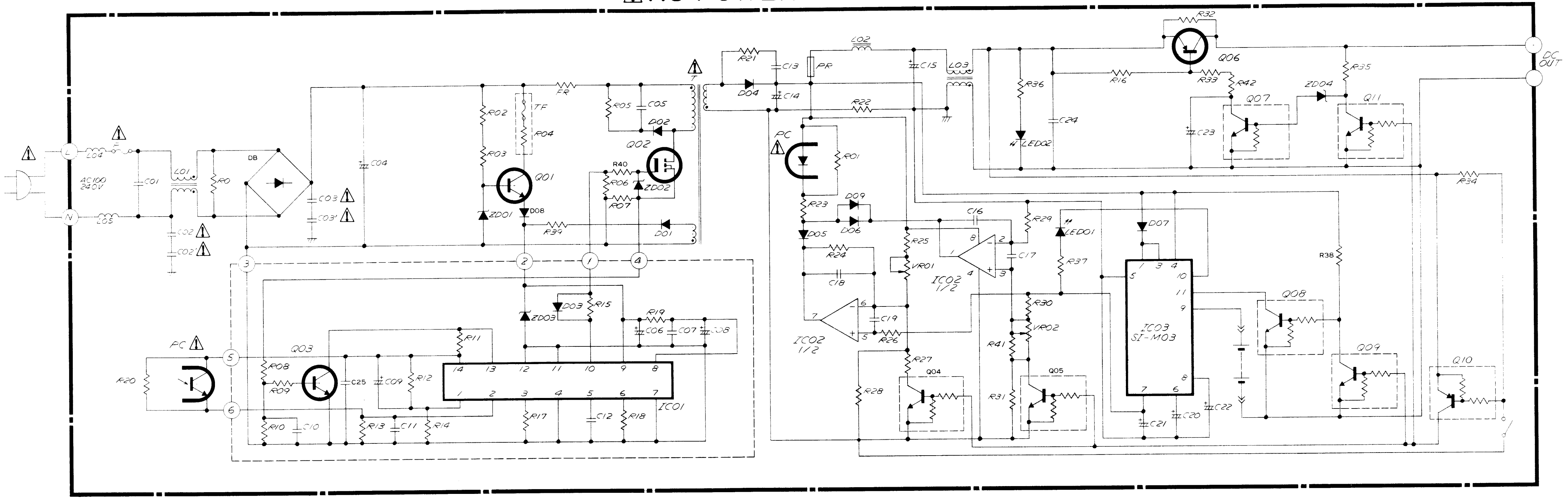
B

C

D

E

⚠ AC POWER ADAPTER



⚠
L
N
L04
F
⚠
AC100
240V
C01
L05
L01
R0
DB
C03 ⚠
C03' ⚠
C02 ⚠
C02' ⚠
C04
R02
R03
Q01
ZD01
D08
TF
R04
FR
R05
C05
D02
Q02
R40
R06
ZD02
R07
R39
D01
T
⚠
R21
D04
C13
C14
PR
L02
C15
L03
R22
PC
⚠
R01
R23
D09
D06
D05
R24
C18
R25
VR01
C16
IC02
1/2
C17
R29
LED01
R37
IC02
1/2
C19
R26
R27
R28
Q04
R30
VR02
R41
R31
Q05
D07
IC03
SI-M03
C21
C20
C22
R36
LED02
C24
R16
R32
Q06
R33
R42
C23
Q07
ZD04
R35
Q11
R34
R38
Q08
Q09
Q10
DC
OUT
3
2
1
4
5
6
ZD03
R15
R19
C06
C07
C08
R11
PC ⚠
R20
Q03
R08
R09
C25
C09
R12
R10
C10
R13
C11
R14
R17
C12
R18
IC01
14
13
12
11
10
9
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1
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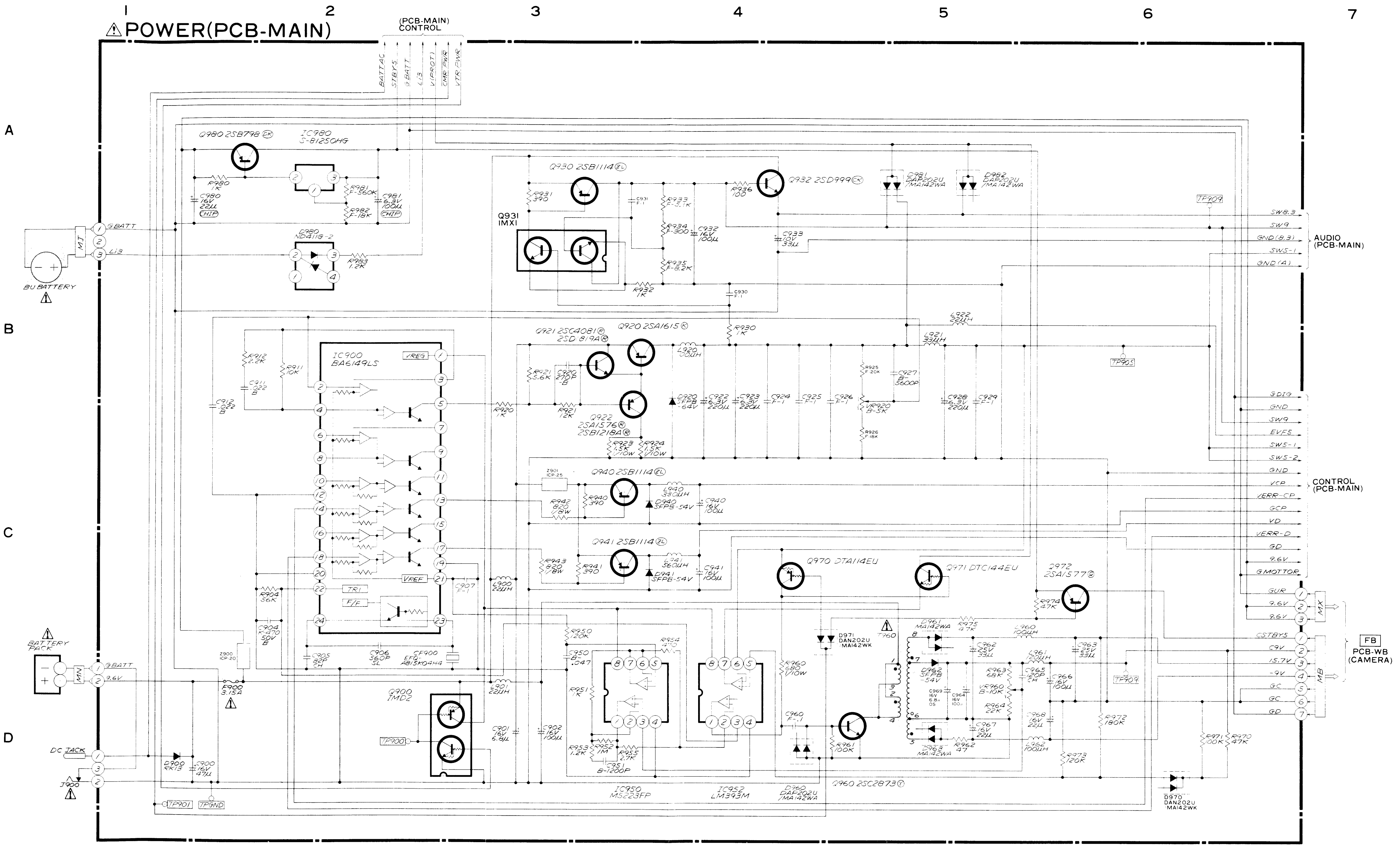
7

− +
BU BATTER
⚠
BATTERY
PACK
−
+
DC

⚠POWER(PCB-MAIN)


1
2
3
4
5
6
7
A
B
C
D
(PCB-MAIN) CONTROL
BATT AC
STBY5
G BATT
L13
V(PROT)
CMR PWR
VTR PWR
Q980 2SB798
IC980 S-81250HG
R980 1K
C980 16V 22μ
R981 F-560K
C981 6.3V 100μ
R982 F-18K
D980 ND411G-2
R983 1.2K
MJ
G BATT
L13
BU BATTERY
Q930 2SB1114
Q931 IMX1
R931 390
C931 F-1
R933 F-5.1K
R934 F-300
C932 16V 100μ
R935 F-8.2K
R932 1K
C930 F-1
R936 100
Q932 2SD999
C933 10V 33μ
D981 DAP202U /MA142WA
D982 DAP202U /MA142WA
TP909
SW8.3
SW9
GND(8.3)
SW5-1
GND(A)
AUDIO (PCB-MAIN)
R912 2.2K
R911 10K
C911 .022 B
C912 .022 B
IC900 BA6149LS
VREG
VREF
TRI
F/F
Q921 2SC4081 2SD 819A
Q920 2SA1615
R930 1K
L922 22μH
L921 33μH
R921 5.6K
C920 470P B
R920 1K
R921 12K
L920 30μH
D920 SFPB 54V
C922 6.3V 220μ
C923 6.3V 220μ
C924 F-1
C925 F-1
C926 F-1
R925 F 20K
C927 B 3600P
VR920 B-5K
R926 F18K
C928 6.3V 220μ
C929 F-1
TP905
Q922 2SA1576 2SB1218A
R923 1.5K 1/10W
R924 1.5K 1/10W
Z901 ICP-25
Q940 2SB1114
L940 330μH
R942 820 1/8W
R940 390
D940 SFPB-54V
C940 16V 100μ
Q941 2SB1114
R943 820 1/8W
R941 390
L941 560μH
D941 SFPB-54V
C941 16V 100μ
GDIG
GND
SW9
EVF5
SW5-1
SW5-2
GND
VCP
VERR-CP
GCP
VD
VERR-D
GD
9.6V
GMOTTOR
CONTROL (PCB-MAIN)
R904 56K
C904 K470 50V B
C907 F-1
L900 22μH
Z900 ICP-20
C905 82P CH
C906 560P SL
CF900 EFO AB13K04H4
BATTERY PACK
MN
G BATT
9.6V
F900 3.15A
L901 22μH
Q900 IMD2
TP900
C901 16V 6.8μ
C902 16V 100μ
R950 120K
C950 B .047
R951 1K
R954 470
R953 1.2K
R952 1M
R955 2.7K
C951 B-1200P
IC950 M5223FP
IC952 LM393M
Q970 DTA114EU
Q971 DTC144EU
D971 DAN202U MA142WK
T960
R960 680 1/10W
C960 F-1
D960 DAP202U /MA142WA
Q960 2SC2873
R961 100K
D961 MA142WA
R975 4.7K
C962 25V 33μ
D962 SFPB 54V
C969 16V 6.8μ
C964 16V 100μ
VR960 B-10K
R963 68K
R964 22K
D963 MA142WA
R962 47
C967 16V 22μ
L961 220μH
C965 120P CH
C966 16V 100μ
C968 16V 22μ
L962 100μH
C960 100μH
C963 25V 33μ
Q972 2SA1577
R974 47K
R972 180K
R973 120K
TP909
R971 100K
R970 47K
D970 DAN202U MA142WK
GUR
9.6V
9.6V
MX
CSTBY5
C9V
15.7V
-9V
GC
GC
GD
MB
FB
PCB-WB (CAMERA)
DC JACK
D900 RK13
C900 16V 47μ
J900
TP901
TPGND

E

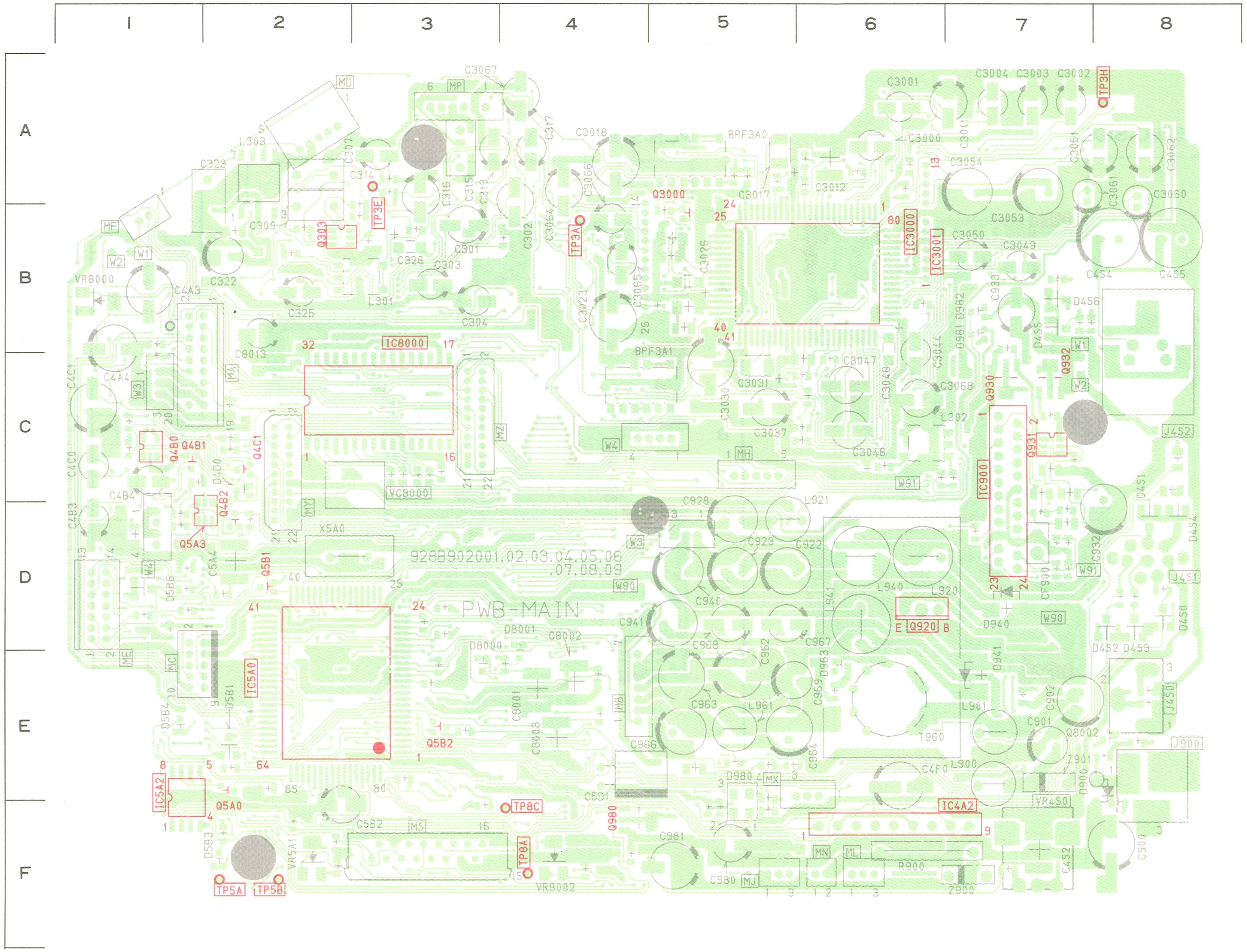
⚠

SERVICING PRECAUTION

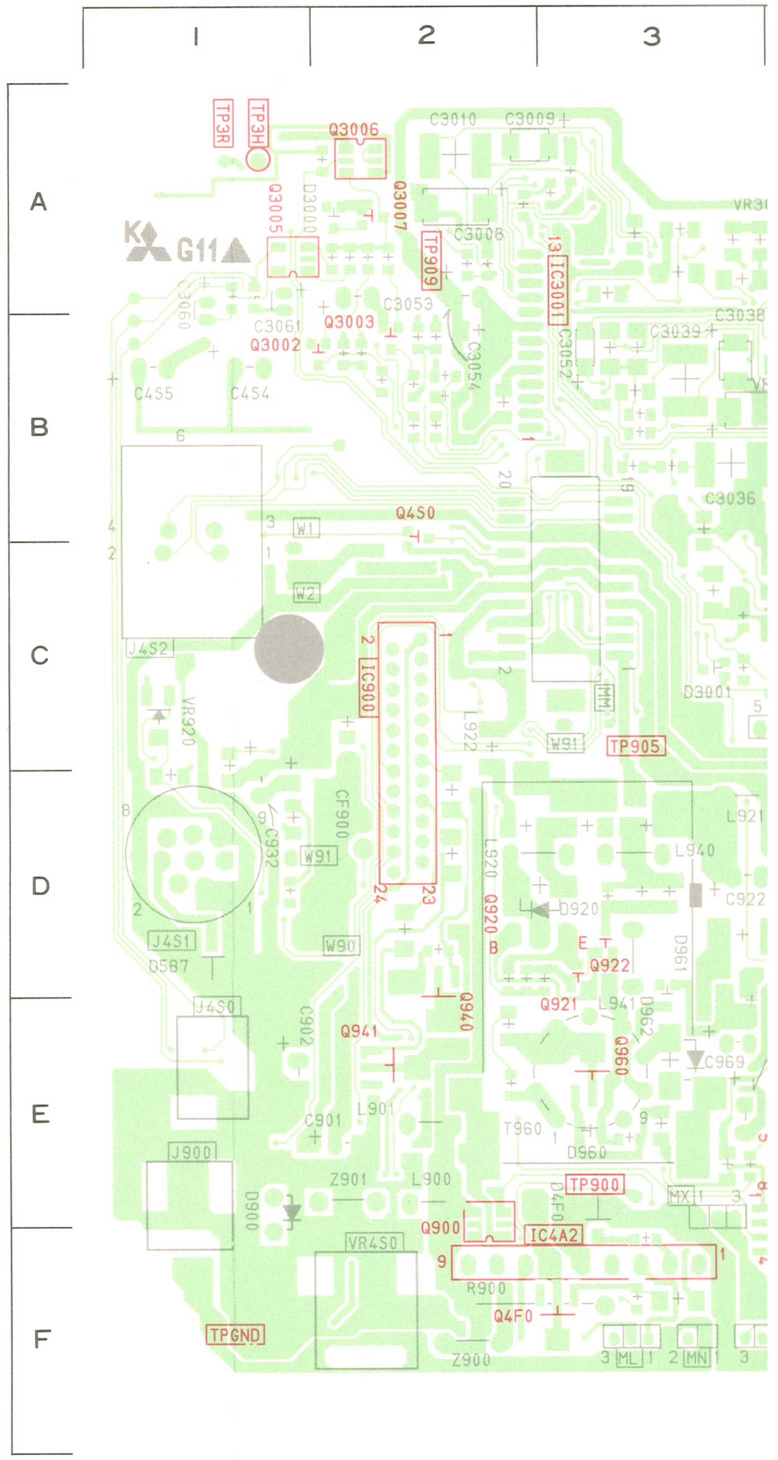
SYMBOLS INDICATE COMPONENTS HAVING SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY AND PERFORMANCE. THEREFOR REPLACEMENT OF ANY SAFETY PARTS SHOULD BE IDENTICAL IN VALUE AND CHARACTERISTICS.

DON'T DEGRADE THE SAFETY OF THE VCR THROUGH IMPROPER SERVICING.

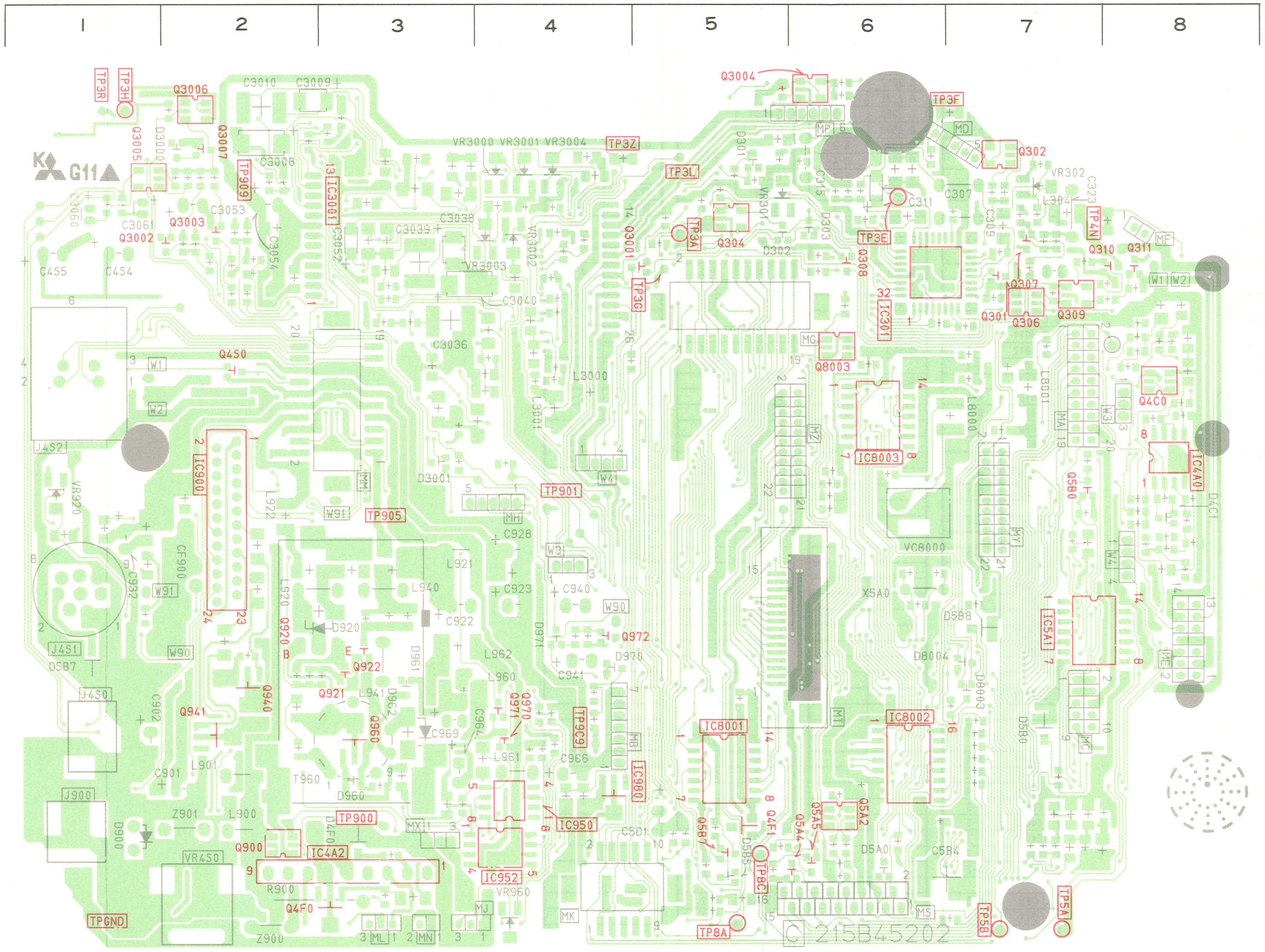
PCB-MAIN(C-SIDE)



PCB-MAIN(S-SIDE)



PCB-MAIN(S-SIDE)


1
2
3
4
5
6
7
8
G11
TP3R
TP3H
Q3006
Q3005
Q3007
TP909
Q3003
Q3002
IC3001
Q3004
TP3F
Q3302
TP3Z
TP3L
TP3A
Q304
Q3001
TP3G
TP3E
Q308
IC301
TP4N
Q310
Q311
Q307
Q301
Q306
Q309
Q450
Q8003
IC8003
Q4C0
IC4A0
IC900
TP901
TP905
VC8000
X5A0
Q972
Q922
Q921
Q920
Q940
Q941
Q960
Q970
Q971
TP9C9
IC8001
IC980
IC8002
IC5A1
TP900
IC4A2
IC952
IC950
Q900
Q4F0
Q5B7
Q4F1
Q5A4
Q5A5
Q5A2
TP8C
TP8A
TP5B
TP5A
TPGND
215B45202

PCB-MAIN(C-SIDE)

SYMBOL NO.	ADDRESS
BPF3A0	A-5
BPF3A1	C-4
C 301	B-3
C 302	A-4
C 303	B-3
C 304	B-3
C 307	A-2
C 309	A-2
C 314	A-3
C 315	A-3
C 316	A-3
C 317	A-4
C 319	A-3
C 322	B-2
C 323	A-2
C 325	B-2
C 326	B-3
C 3000	A-6
C 3001	A-6
C 3002	A-7
C 3003	A-7
C 3004	A-7
C 3011	A-7
C 3012	A-6
C 3017	A-5
C 3018	A-4
C 3023	B-4
C 3026	B-5
C 3030	C-5
C 3031	C-5
C 3037	C-5
C 3044	C-6
C 3046	C-6
C 3047	C-6
C 3048	B-6
C 3049	B-7
C 3050	B-7
C 3051	A-8
C 3053	A-7
C 3054	A-7
C 3060	A-8
C 3061	A-7
C 3062	A-8
C 3064	A-4
C 3065	B-4
C 3066	B-4
C 3067	A-4
C 3068	C-6
C 4A3	B-1
C 4A4	B-1
C 4B3	D-1
C 4B4	C-1
C 4C0	C-1
C 4C1	C-1
C 4F0	E-6
C 4S2	F-7
C 4S4	B-8
C 4S5	B-8
C 5A4	D-2
C 5B2	F-2
C 5D1	E-4
C 8001	E-4
C 8002	E-4
C 8003	E-4
C 8013	B-2
C 900	F-8
C 901	E-7
C 902	E-7
C 922	D-5
C 923	D-5
C 928	D-5
C 932	D-8
C 933	B-7
C 940	D-5
C 941	D-5
C 962	E-5
C 963	E-5
C 964	E-5
C 966	D-5

SYMBOL NO.	ADDRESS
C 967	D-5
C 968	E-5
C 969	E-5
C 980	F-5
C 981	F-5
CF900	D-7
D 4D0	C-2
D 4S0	D-8
D 4S1	D-8
D 4S2	D-8
D 4S3	D-8
D 4S4	D-8
D 4S5	B-7
D 4S6	B-7
D 5B1	E-2
D 5B3	F-2
D 5B4	E-1
D 5B6	D-1
D 8000	E-3
D 8001	D-4
D 900	E-8
D 940	D-7
D 941	E-7
D 963	E-6
D 980	F-5
D 981	B-7
D 982	B-7
IC3000	B-6
IC3001	B-6
IC4A2	F-6
IC5A0	E-2
IC5A2	E-1
IC8000	C-3
IC900	C-7
J 4S0	E-8
J 4S1	D-8
J 4S2	B-8
J 900	E-8
L 301	B-3
L 302	C-6
L 303	A-2
L 900	E-7
L 901	E-7
L 920	D-6
L 921	D-5
L 940	D-6
L 941	D-6
L 961	E-5
Q 303	B-2
Q 3000	A-5
Q 4B0	C-1
Q 4B1	C-1
Q 4B2	D-2
Q 4C1	C-2
Q 5A0	E-2
Q 5A3	D-1
Q 5B1	D-2
Q 5B2	E-3
Q 8002	E-8
Q 920	D-6
Q 930	C-7
Q 931	C-7
Q 932	C-7
Q 980	F-4
R 900	F-6
T 960	E-6
TP3A	B-4
TP3E	A-3
TP3H	A-8
TP5A	F-2
TP5B	F-2

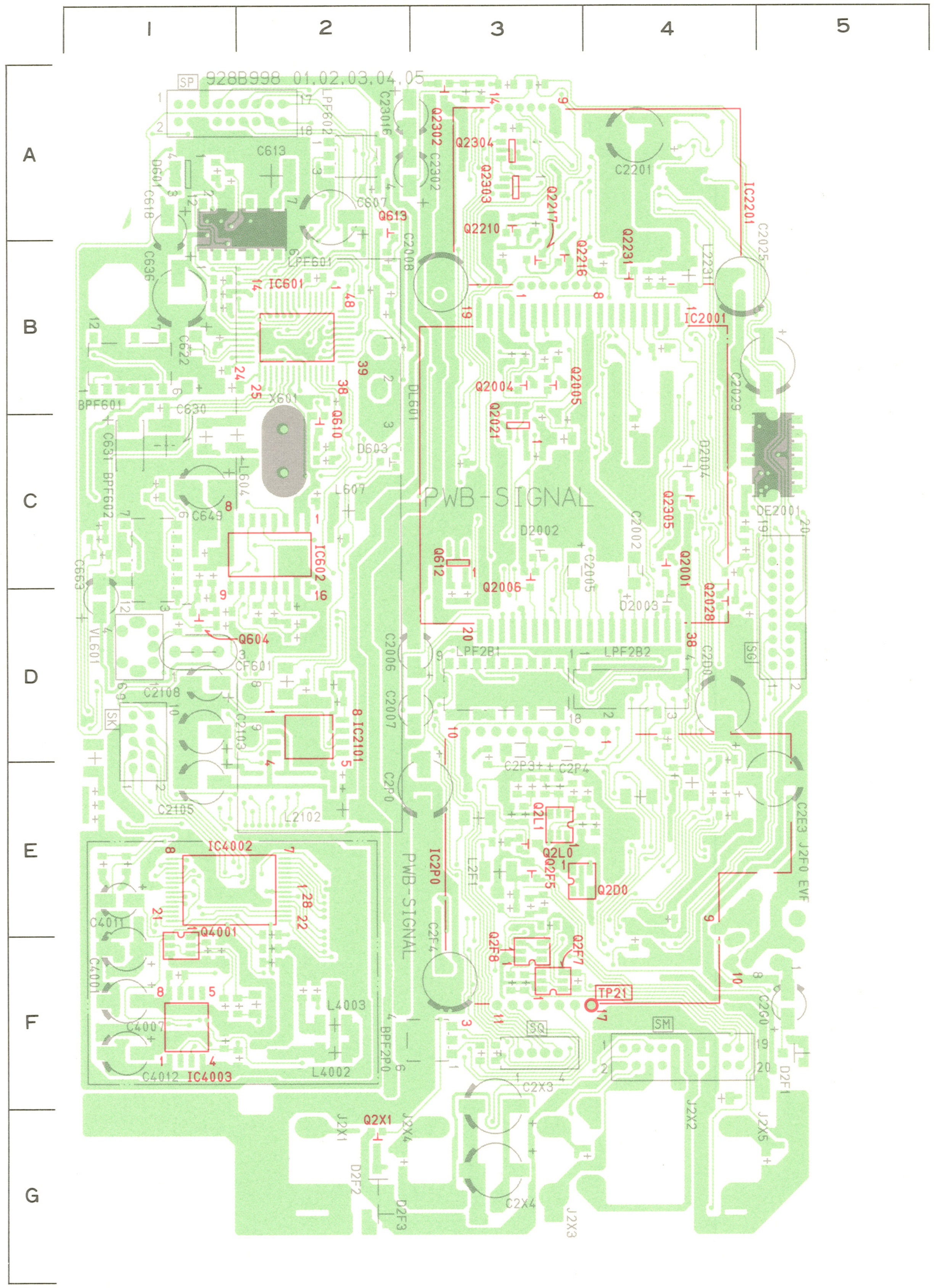
SYMBOL NO.	ADDRESS
TP8A	F-4
TP8C	F-3
VC8000	C-2
VR4S0	F-7
VR5A1	F-2
VR8000	B-1
VR8002	F-4
X 5A0	D-2
Z 900	F-7
Z 901	E-7

PCB-MAIN(S-SIDE)

SYMBOL NO.	ADDRESS
C 3008	A-2
C 3009	A-2
C 3010	A-2
C 3036	B-3
C 3038	B-3
C 3039	B-3
C 3040	B-3
C 3052	B-3
C 311	A-6
C 5B4	F-6
D 3000	A-2
D 3001	C-3
D 301	A-5
D 302	B-5
D 303	B-6
D 4C1	C-8
D 4F0	E-3
D 5A0	F-6
D 5B0	E-7
D 5B5	F-5
D 5B7	D-1
D 5B8	D-7
D 8003	D-7
D 8004	D-7
D 920	D-2
D 960	E-3
D 961	D-3
D 962	E-3
D 970	D-4
D 971	D-4
IC301	B-6
IC4A0	C-8
IC5A1	D-7
IC8001	E-5
IC8002	E-6
IC8003	C-6
IC950	E-4
IC952	F-4
IC980	E-4
L 3000	C-4
L 3001	C-4
L 304	A-7
L 8000	C-7
L 8001	C-7
L 922	C-2
L 960	D-3
L 962	D-3
Q 3001	B-5
Q 3002	B-2
Q 3003	B-2
Q 3004	A-6
Q 3005	A-1
Q 3006	A-2
Q 3007	A-2
Q 301	B-7
Q 302	A-7
Q 304	B-5
Q 306	B-7
Q 307	B-7
Q 308	B-6
Q 309	B-7
Q 310	B-8
Q 311	B-8
Q 4C0	C-8
Q 4F0	F-3
Q 4F1	E-5
Q 4S0	B-2
Q 5A2	E-6
Q 5A4	F-5
Q 5A5	F-6
Q 5B0	C-7
Q 5B7	F-5
Q 8003	B-6
Q 900	E-2
Q 921	D-3
Q 922	D-3

SYMBOL NO.	ADDRESS
Q 940	D-2
Q 941	E-2
Q 960	E-3
Q 970	E-4
Q 971	E-4
Q 972	D-4
TP3F	A-7
TP3G	B-5
TP3L	A-5
TP3R	A-1
TP3Z	A-4
TP4N	A-8
TP900	E-3
TP901	C-4
TP905	C-3
TP909	A-2
TP9C9	E-4
TPGND	F-1
VR3000	A-4
VR3001	A-4
VR3002	B-4
VR3003	B-4
VR3004	A-4
VR301	A-5
VR302	A-7
VR920	C-1
VR960	F-4

PCB-SIGNAL(C-SIDE)



1
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A
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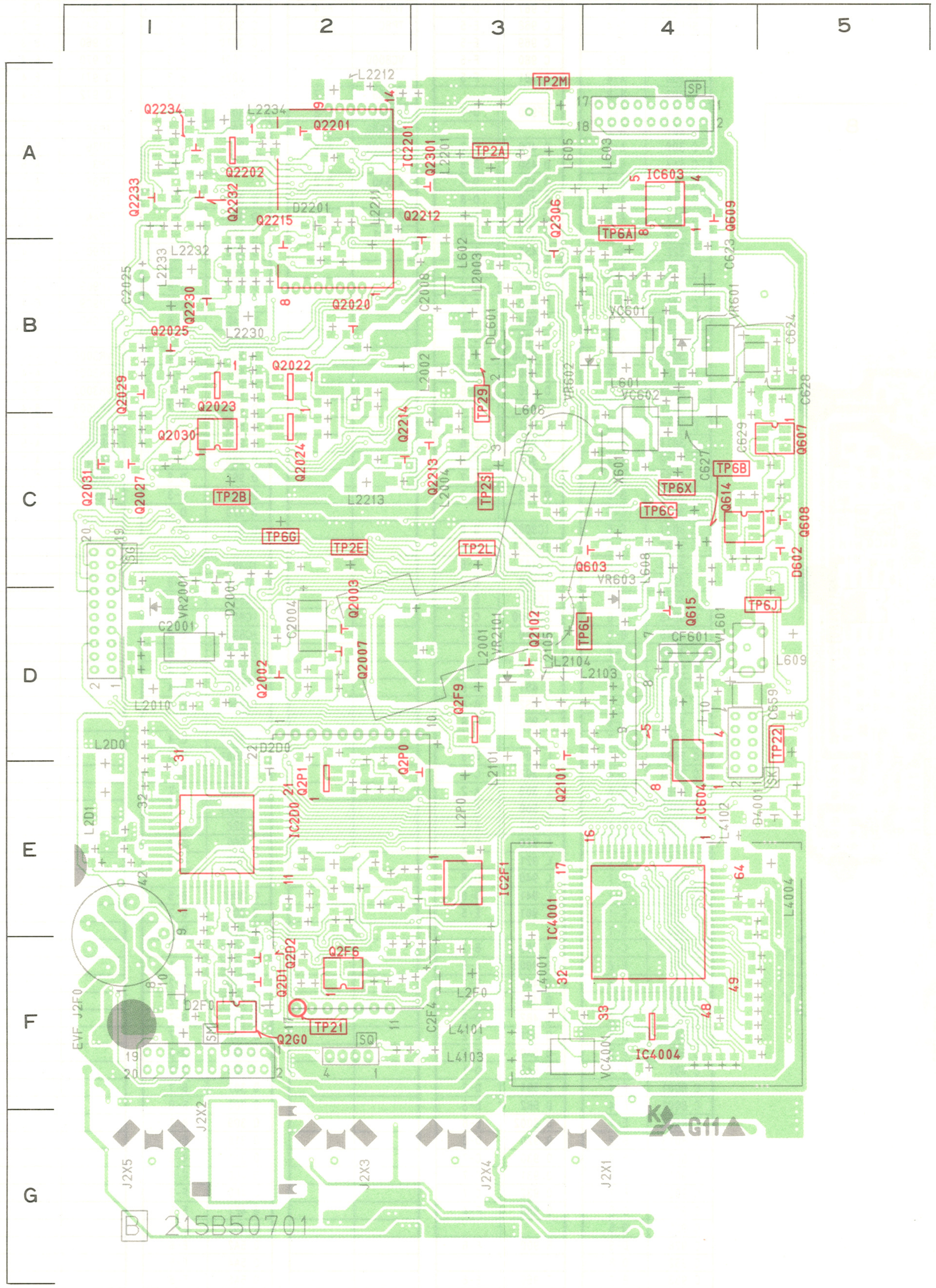
928B998 01.02.03.04.05
PWB-SIGNAL
IC601
IC602
IC2001
IC2201
IC2101
IC2P0
IC4002
IC4003
X601
Q604
Q610
Q612
Q613
Q2001
Q2004
Q2005
Q2006
Q2021
Q2028
Q2210
Q2216
Q2217
Q2231
Q2302
Q2303
Q2304
Q2305
Q2D0
Q2F5
Q2F7
Q2F8
Q2L0
Q2L1
Q2X1
Q4001
TP21
LPF601
LPF602
LPF2B1
LPF2B2
BPF601
BPF602
BPF2P0
DE2001
DL601
CF601
VL601

PCB-SIGNAL(S-SIDE)



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F
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IC604
IC2D0
IC2F1
IC4001
IC4004
TP2M
TP2A
TP6A
TP2B
TP6G
TP2E
TP2L
TP2S
TP29
TP6B
TP6X
TP6C
TP6J
TP6L
TP22
TP2I
Q2201
Q2202
Q2215
Q2212
Q2234
Q2233
Q2230
Q2232
Q2020
Q2022
Q2023
Q2025
Q2029
Q2030
Q2031
Q2027
Q2024
Q2213
Q2214
Q2002
Q2003
Q2007
Q2102
Q2101
Q2F9
Q2P0
Q2P1
Q2D1
Q2D2
Q2F6
Q2G0
Q603
Q607
Q608
Q609
Q614
Q615
Q602
Q2306
Q2301
L2212
G11

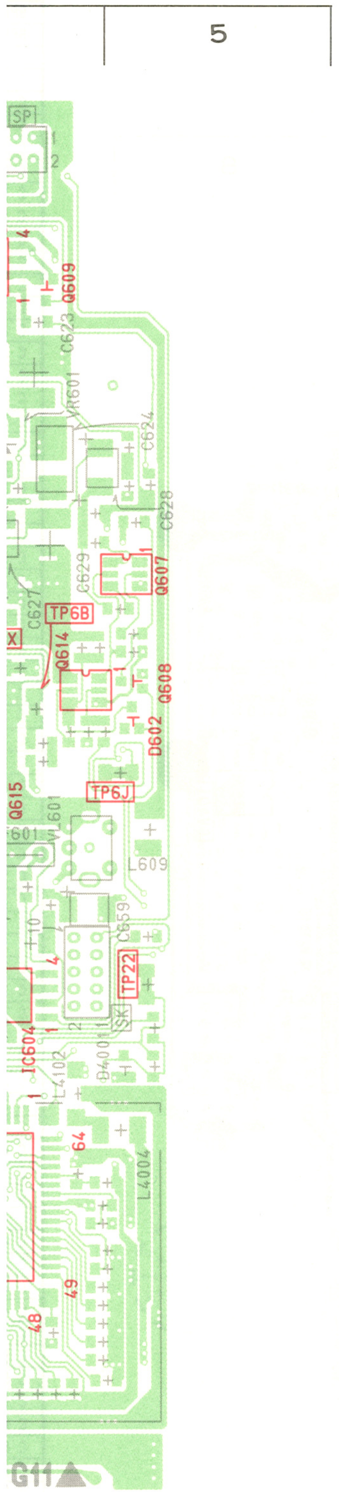
PCB-SIGNAL(C-SIDE)

SYMBOL NO.	ADDRESS
BPF2P0	F-3
BPF601	B-1
BPF602	C-1
C 2002	C-4
C 2005	C-3
C 2006	D-2
C 2007	D-2
C 2008	B-3
C 2025	B-4
C 2029	B-5
C 2103	D-1
C 2105	E-1
C 2108	D-1
C 2201	A-4
C 2301	A-2
C 2302	A-2
C 2D0	D-4
C 2E3	E-5
C 2F4	F-3
C 2G0	F-5
C 2P0	E-3
C 2P3	D-3
C 2P4	D-3
C 2X3	F-3
C 4001	F-1
C 4007	F-1
C 4011	E-1
C 4012	F-1
C 607	A-2
C 613	A-2
C 618	A-1
C 622	B-1
C 630	C-1
C 631	C-1
C 636	B-1
C 649	C-1
C 663	D-1
CF601	D-1
D 2002	C-3
D 2003	D-4
D 2004	C-4
D 2F1	F-5
D 2F2	G-2
D 2F3	G-2
D 601	A-1
D 603	C-2
DE2001	C-5
DL601	B-2
IC2001	B-4
IC2101	D-2
IC2201	A-4
IC2P0	E-3
IC4002	E-1
IC4003	F-1
IC601	B-2
IC602	C-2
J 2F0	E-5
J 2X1	G-2
J 2X2	G-4
J 2X3	G-3
J 2X4	G-3
J 2X5	G-4
L 2102	E-2
L 2231	B-4
L 2F1	E-3
L 4002	F-2
L 4003	F-2
L 604	C-1
L 607	C-2
LPF2B1	D-3
LPF2B2	D-4

SYMBOL NO.	ADDRESS
LPF601	B-2
LPF602	A-2
Q 2001	C-4
Q 2004	B-3
Q 2005	B-3
Q 2006	C-3
Q 2021	C-3
Q 2028	D-4
Q 2210	A-3
Q 2216	B-3
Q 2217	B-3
Q 2231	B-4
Q 2302	A-3
Q 2303	A-3
Q 2304	A-3
Q 2305	C-4
Q 2D0	E-3
Q 2F5	E-3
Q 2F7	F-3
Q 2F8	F-3
Q 2L0	E-3
Q 2L1	E-3
Q 2X1	G-2
Q 4001	F-1
Q 604	D-1
Q 610	C-2
Q 612	C-3
Q 613	A-2
VL601	D-1
X 601	C-2

PCB-SIGNAL(

SYMBOL NO.	ADD
C 2001	D
C 2004	D
C 623	B
C 624	B
C 627	C
C 628	B
C 629	C
C 659	D
D 2001	C
D 2201	A
D 2D0	E
D 2F0	F
D 4001	E
D 602	C
IC2D0	E
IC2F1	E
IC4001	E
IC4004	F
IC603	A
IC604	E
L 2001	D
L 2002	B
L 2003	B
L 2004	C
L 2010	D
L 2101	D
L 2103	D
L 2104	D
L 2105	D
L 2201	A
L 2211	B
L 2212	A
L 2213	C
L 2230	B
L 2232	B
L 2233	B
L 2234	A
L 2D0	E
L 2D1	E
L 2F0	F
L 2P0	E
L 4001	F
L 4004	E
L 4101	F
L 4102	E
L 4103	F
L 601	B
L 602	B
L 603	A
L 605	A
L 606	B
L 608	C
L 609	D
Q 2002	D
Q 2003	D
Q 2007	D
Q 2020	B
Q 2022	B
Q 2023	B
Q 2024	C
Q 2025	B
Q 2027	C
Q 2029	B
Q 2030	C
Q 2031	C
Q 2101	D
Q 2102	D
Q 2201	A
Q 2202	A
Q 2212	A
Q 2213	C
Q 2214	C
Q 2215	B
Q 2230	B
Q 2232	A
Q 2233	A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SP
Q609
Q623
VR601
C624
C626
Q607
C629
C627
TP6B
Q614
Q608
Q602
TP6J
Q615
VL601
L609
C659
TP22
IC604
L4102
Q4001
L4004
G11

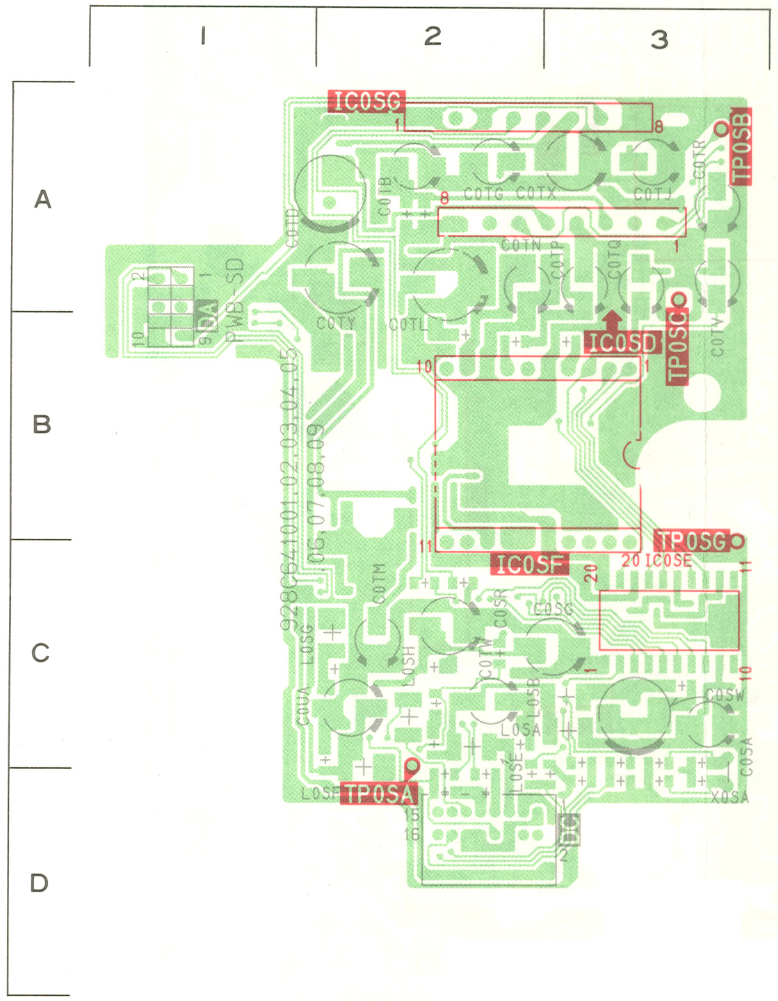
PCB-SIGNAL (C-SIDE)

SYMBOL NO.	ADDRESS
BPF2P0	F-3
BPF601	B-1
BPF602	C-1
C 2002	C-4
C 2005	C-3
C 2006	D-2
C 2007	D-2
C 2008	B-3
C 2025	B-4
C 2029	B-5
C 2103	D-1
C 2105	E-1
C 2108	D-1
C 2201	A-4
C 2301	A-2
C 2302	A-2
C 2D0	D-4
C 2E3	E-5
C 2F4	F-3
C 2G0	F-5
C 2P0	E-3
C 2P3	D-3
C 2P4	D-3
C 2X3	F-3
C 4001	F-1
C 4007	F-1
C 4011	E-1
C 4012	F-1
C 607	A-2
C 613	A-2
C 618	A-1
C 622	B-1
C 630	C-1
C 631	C-1
C 636	B-1
C 649	C-1
C 663	D-1
CF601	D-1
D 2002	C-3
D 2003	D-4
D 2004	C-4
D 2F1	F-5
D 2F2	G-2
D 2F3	G-2
D 601	A-1
D 603	C-2
DE2001	C-5
DL601	B-2
IC2001	B-4
IC2101	D-2
IC2201	A-4
IC2P0	E-3
IC4002	E-1
IC4003	F-1
IC601	B-2
IC602	C-2
J 2F0	E-5
J 2X1	G-2
J 2X2	G-4
J 2X3	G-3
J 2X4	G-3
J 2X5	G-4
L 2102	E-2
L 2231	B-4
L 2F1	E-3
L 4002	F-2
L 4003	F-2
L 604	C-1
L 607	C-2
LPF2B1	D-3
LPF2B2	D-4
LPF601	B-2
LPF602	A-2
Q 2001	C-4
Q 2004	B-3
Q 2005	B-3
Q 2006	C-3
Q 2021	C-3
Q 2028	D-4
Q 2210	A-3
Q 2216	B-3
Q 2217	B-3
Q 2231	B-4
Q 2302	A-3
Q 2303	A-3
Q 2304	A-3
Q 2305	C-4
Q 2D0	E-3
Q 2F5	E-3
Q 2F7	F-3
Q 2F8	F-3
Q 2L0	E-3
Q 2L1	E-3
Q 2X1	G-2
Q 4001	F-1
Q 604	D-1
Q 610	C-2
Q 612	C-3
Q 613	A-2
VL601	D-1
X 601	C-2

PCB-SIGNAL (S-SIDE)

SYMBOL NO.	ADDRESS
C 2001	D-1
C 2004	D-2
C 623	B-4
C 624	B-4
C 627	C-4
C 628	B-4
C 629	C-4
C 659	D-4
D 2001	C-1
D 2201	A-2
D 2D0	E-2
D 2F0	F-1
D 4001	E-5
D 602	C-5
IC2D0	E-1
IC2F1	E-3
IC4001	E-4
IC4004	F-4
IC603	A-4
IC604	E-4
L 2001	D-3
L 2002	B-3
L 2003	B-3
L 2004	C-3
L 2010	D-1
L 2101	D-3
L 2103	D-4
L 2104	D-3
L 2105	D-3
L 2201	A-3
L 2211	B-2
L 2212	A-2
L 2213	C-2
L 2230	B-2
L 2232	B-1
L 2233	B-1
L 2234	A-2
L 2D0	E-1
L 2D1	E-1
L 2F0	F-3
L 2P0	E-3
L 4001	F-3
L 4004	E-5
L 4101	F-3
L 4102	E-4
L 4103	F-3
L 601	B-4
L 602	B-3
L 603	A-4
L 605	A-3
L 606	B-3
L 608	C-4
L 609	D-5
Q 2002	D-2
Q 2003	D-2
Q 2007	D-2
Q 2020	B-2
Q 2022	B-2
Q 2023	B-1
Q 2024	C-2
Q 2025	B-1
Q 2027	C-1
Q 2029	B-1
Q 2030	C-1
Q 2031	C-1
Q 2101	D-3
Q 2102	D-3
Q 2201	A-2
Q 2202	A-1
Q 2212	A-3
Q 2213	C-3
Q 2214	C-2
Q 2215	B-2
Q 2230	B-1
Q 2232	A-1
Q 2233	A-1
Q 2234	A-1
Q 2301	A-3
Q 2306	B-3
Q 2D1	F-2
Q 2D2	F-2
Q 2F6	F-2
Q 2F9	D-3
Q 2G0	F-1
Q 2P0	E-3
Q 2P1	E-2
Q 603	C-4
Q 607	C-5
Q 608	C-5
Q 609	A-4
Q 614	C-4
Q 615	D-4
TP22	D-5
TP29	B-3
TP2A	A-3
TP2B	C-1
TP2E	C-2
TP2L	C-3
TP2M	A-3
TP2S	C-3
TP6A	A-4
TP6B	C-4
TP6C	C-4
TP6G	C-2
TP6J	D-5
TP6L	D-3
TP6X	C-4
VC4001	F-3
VC601	B-4
VC602	C-4
VR2001	D-1
VR2101	D-3
VR601	B-4
VR602	B-4
VR603	D-4

PCB-SD(C-SIDE)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3
A
B
C
D
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PWD-SD
IC0SD
TP0SC
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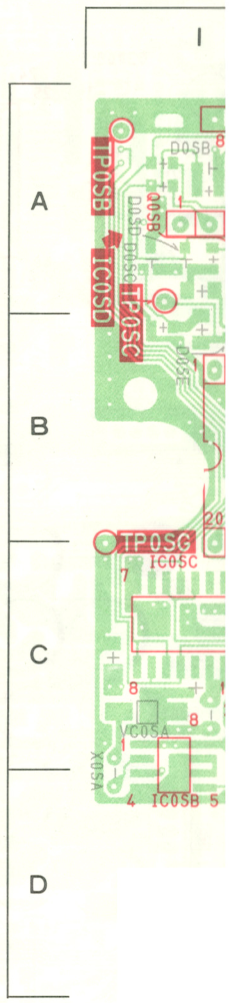
IC0SF
IC0SE
TP0SA

PCB-SD(S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C
D
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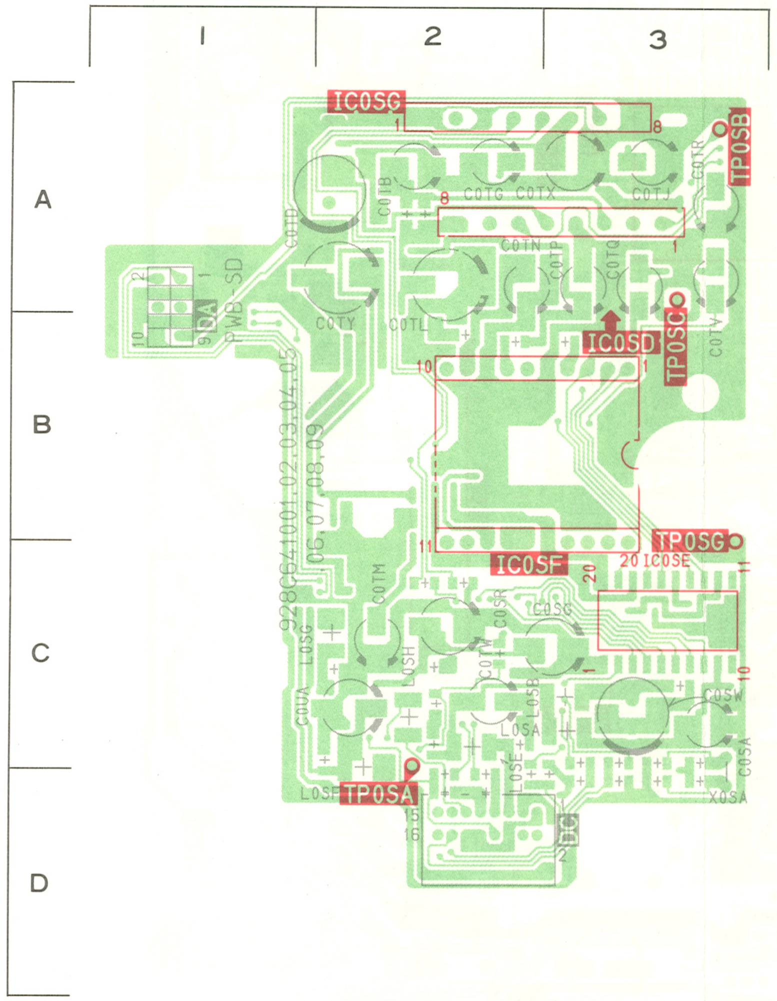
TP0SC
TP0SG
IC0SC
IC0SB

PCB-SD(C-SIDE)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C
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ICOSD
TPOSC
ICOSF
TPOSG
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LOSE
PWB-SD
DA
DC
COTG
COTX
COTN
COTY
COTL
COTM
COUA
LOSG
LOSH
LOSA
XOSA
COSA
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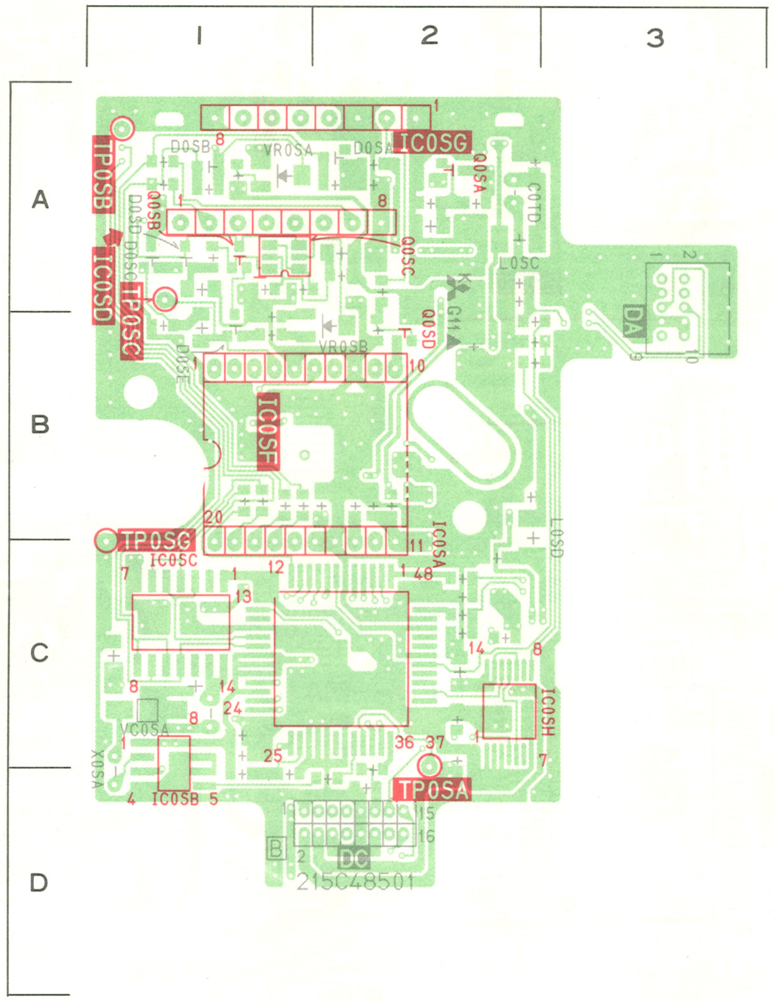
06-07-08-09

PCB-SD(S-SIDE)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ICOSD
TPOSC
ICOSF
TPOSG
ICOSC
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ICOSB
TPOSA
DOSB
DOSA
VROSA
VROSB
QOSA
QOSB
QOSC
QOSD
LOSC
LOSD
DOSC
DOSD
DOSE
VCOSA
XOSA
DA
DC
215C48501

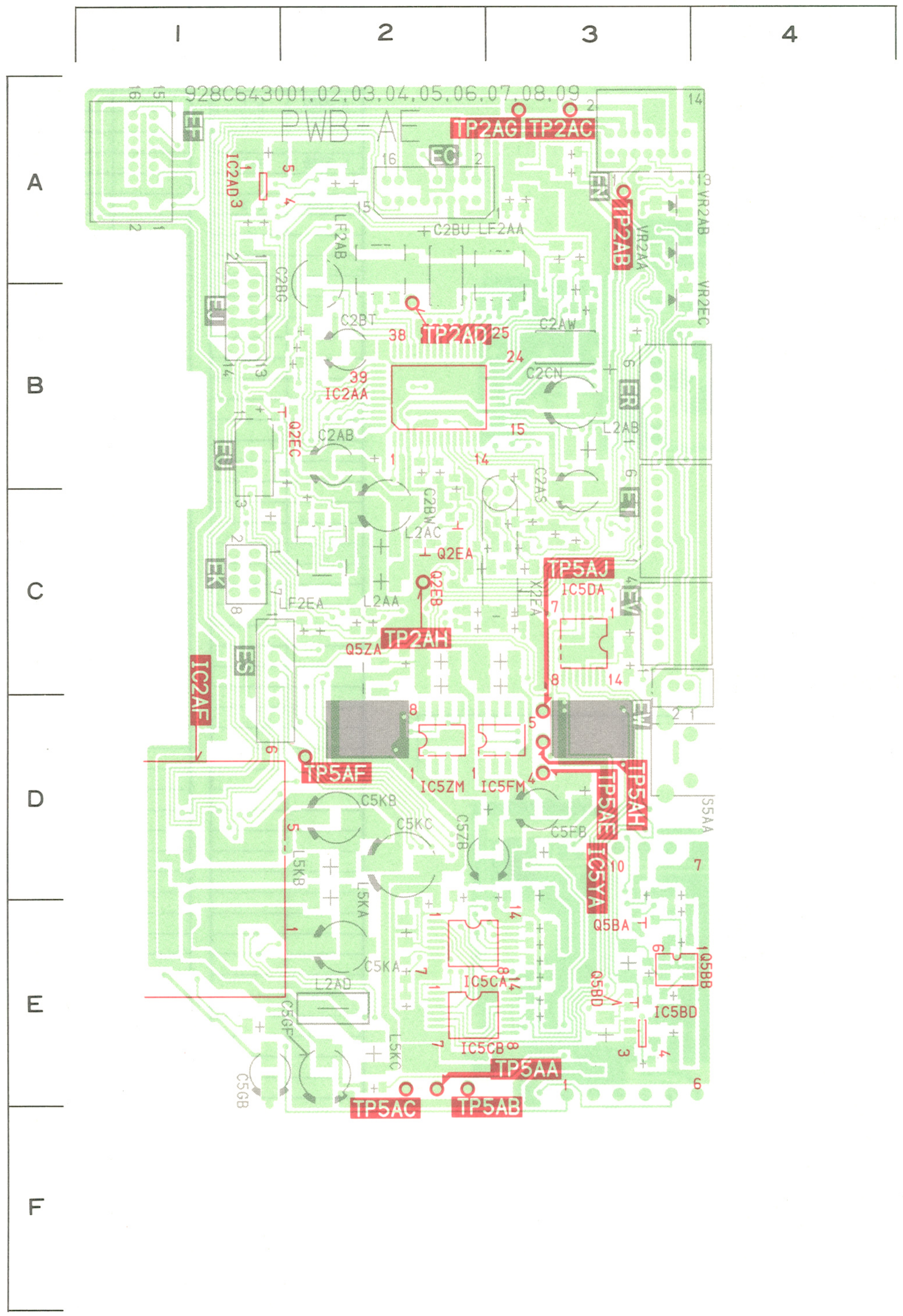
PCB-SD(C-SIDE)

SYMBOL NO.	ADDRESS
C 0SA	C-3
C 0SG	C-2
C 0SR	C-2
C 0SW	C-3
C 0TB	A-2
C 0TD	A-2
C 0TG	A-2
C 0TJ	A-3
C 0TL	A-2
C 0TM	C-2
C 0TN	A-2
C 0TP	A-3
C 0TQ	A-3
C 0TR	A-3
C 0TV	A-3
C 0TW	C-2
C 0TX	A-3
C 0TY	A-2
C 0UA	C-2
IC0SD	A-2
IC0SE	C-3
IC0SF	B-2
IC0SG	A-2
L 0SA	C-3
L 0SB	C-3
L 0SE	C-2
L 0SF	C-2
L 0SG	C-2
L 0SH	C-2
TP0SA	D-2
TP0SB	A-3
TP0SC	A-3
TP0SG	B-3
X 0SA	D-3

PCB-SD(S-SIDE)

SYMBOL NO.	ADDRESS
D 0SA	A-2
D 0SB	A-1
D 0SC	A-1
D 0SD	A-1
D 0SE	B-1
IC0SA	C-2
IC0SB	D-1
IC0SC	C-1
IC0SH	C-2
L 0SC	A-2
L 0SD	B-2
Q 0SA	A-2
Q 0SB	A-1
Q 0SC	A-2
Q 0SD	B-2
VC0SA	C-1
VR0SA	A-1
VR0SB	B-2

PCB-AE(C-SIDE)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TP2AC
TP2AB
TP2AD
IC2AA
TP5AJ
IC5DA
TP2AH
IC2AF
TP5AF
IC5ZM
IC5FM
TP5AE
TP5AH
IC5YA
IC5CA
IC5CB
IC5BD
TP5AA
TP5AC
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VR2AB
VR2EC
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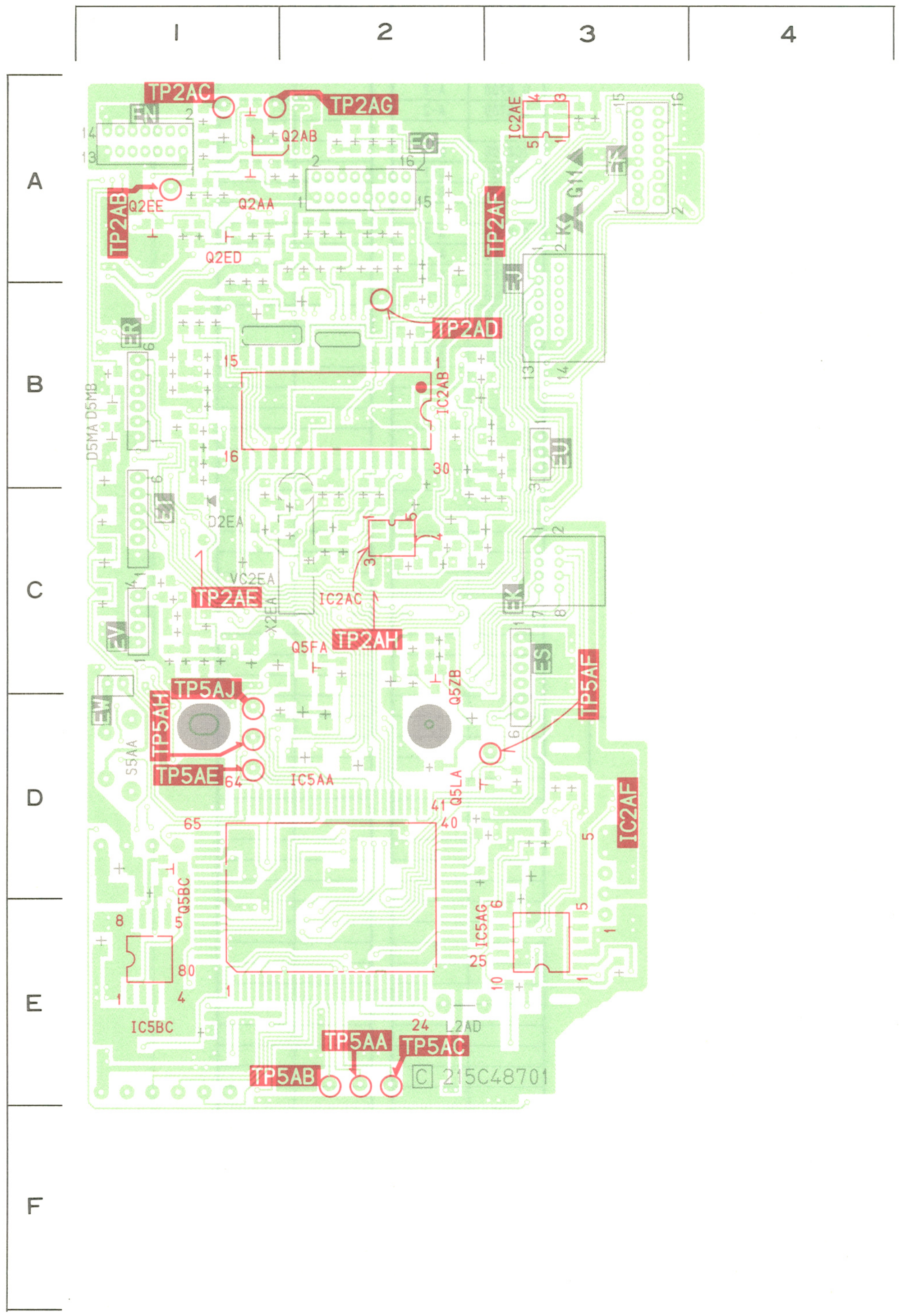
PCB-AE(S-SIDE)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TP2AC
TP2AG
IC2AE
TP2AB
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Q2EE
Q2AA
Q2ED
TP2AD
IC2AB
D5MA D5MB
D2EA
VC2EA
TP2AE
IC2AC
Q5FA
TP2AH
TP5AJ
TP5AH
Q5ZB
TP5AF
TP5AE
IC5AA
Q5LA
IC2AF
Q5BC
IC5AG
IC5BC
L2AD
TP5AA
TP5AC
TP5AB
215C48701

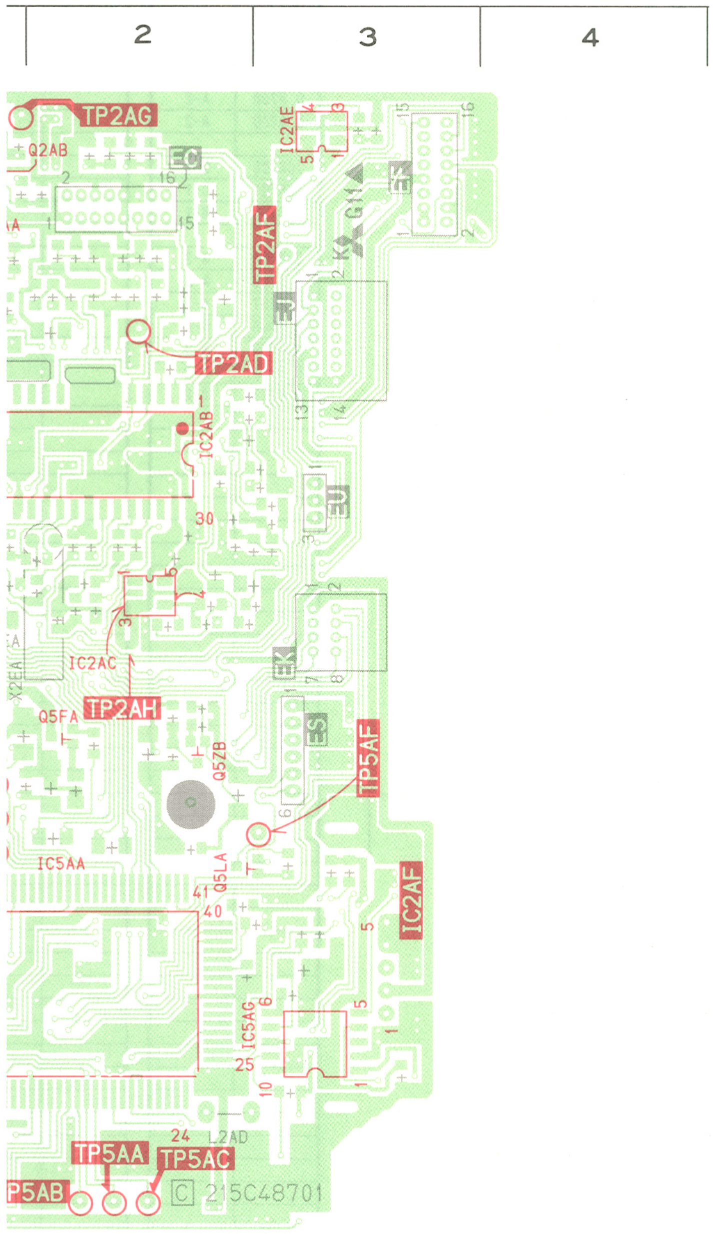
PCB-AE(C-SIDE)

SYMBOL NO.	ADDRESS
C 2AB	B-2
C 2AS	B-3
C 2AW	B-3
C 2BG	B-2
C 2BT	B-2
C 2BU	A-2
C 2BW	C-2
C 2CN	B-3
C 5FB	D-3
C 5GB	E-1
C 5GF	E-2
C 5KA	E-2
C 5KB	D-2
C 5KC	D-2
C 5ZB	D-2
IC2AA	B-2
IC2AD	A-1
IC2AF	D-1
IC5BD	E-3
IC5CA	E-2
IC5CB	E-2
IC5DA	C-3
IC5FM	D-3
IC5YA	D-3
IC5ZM	D-2
L 2AA	C-2
L 2AB	B-3
L 2AC	C-2
L 2AD	E-2
L 5KA	D-2
L 5KB	D-2
L 5KC	E-2
LF2AA	A-3
LF2AB	A-2
LF2EA	C-2
Q 2EA	C-2
Q 2EB	C-2
Q 2EC	B-2
Q 5BA	E-3
Q 5BB	E-3
Q 5BD	E-3
Q 5ZA	C-2
S 5AA	D-3
TP2AB	A-3
TP2AC	A-3
TP2AD	B-2
TP2AG	A-3
TP2AH	C-2
TP5AA	E-2
TP5AB	E-2
TP5AC	E-2
TP5AE	D-3
TP5AF	D-2
TP5AH	D-3
TP5AJ	D-3
VR2AA	A-3
VR2AB	A-3
VR2EC	B-3
X2EA	C-3

PCB-AE(S-SIDE)

SYMBOL NO.	ADDRESS
D 2EA	C-1
D 5MA	B-1
D 5MB	B-1
IC2AB	B-2
IC2AC	C-2
IC2AE	A-3
IC5AA	D-2
IC5AG	E-3
IC5BC	E-1
Q 2AA	A-1
Q 2AB	A-1
Q 2ED	A-1
Q 2EE	A-1
Q 5BC	D-1
Q 5FA	C-2
Q 5LA	D-2
Q 5ZB	C-2
TP2AE	C-1
TP2AF	A-3
VC2EA	C-1

E)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IC2AE
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TP5AF
IC5AA
Q5LA
IC2AF
IC5AG
L2AD
TP5AA
TP5AC
P5AB
C 215C48701

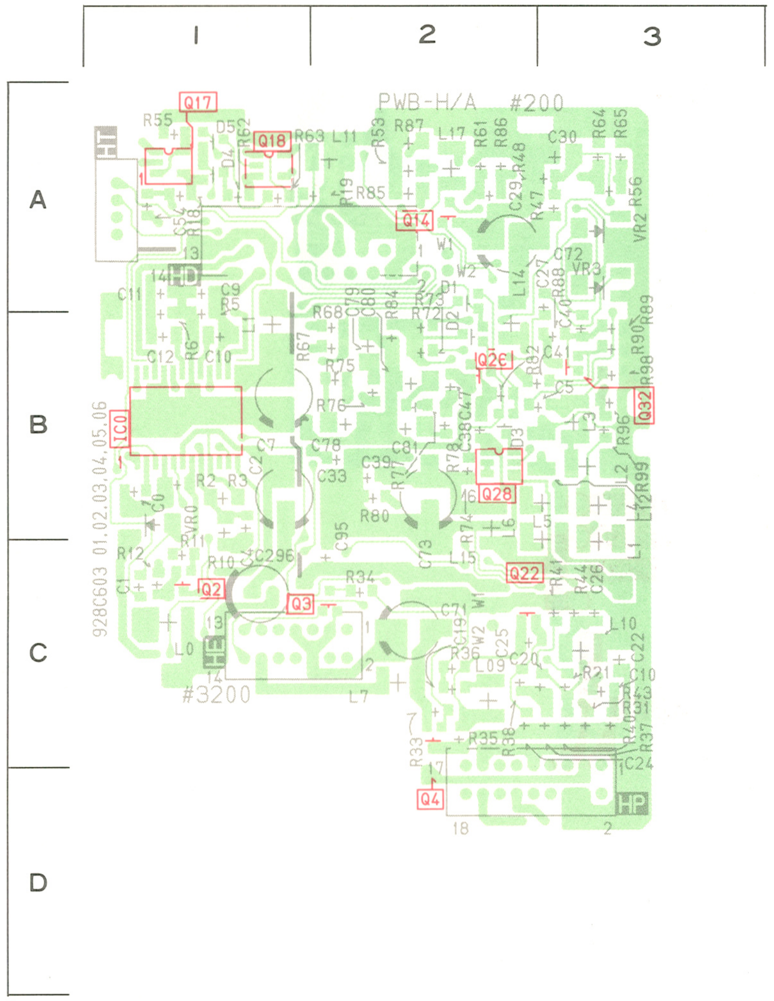
PCB-AE (C-SIDE)

SYMBOL NO.	ADDRESS
C 2AB	B-2
C 2AS	B-3
C 2AW	B-3
C 2BG	B-2
C 2BT	B-2
C 2BU	A-2
C 2BW	C-2
C 2CN	B-3
C 5FB	D-3
C 5GB	E-1
C 5GF	E-2
C 5KA	E-2
C 5KB	D-2
C 5KC	D-2
C 5ZB	D-2
IC2AA	B-2
IC2AD	A-1
IC2AF	D-1
IC5BD	E-3
IC5CA	E-2
IC5CB	E-2
IC5DA	C-3
IC5FM	D-3
IC5YA	D-3
IC5ZM	D-2
L 2AA	C-2
L 2AB	B-3
L 2AC	C-2
L 2AD	E-2
L 5KA	D-2
L 5KB	D-2
L 5KC	E-2
LF2AA	A-3
LF2AB	A-2
LF2EA	C-2
Q 2EA	C-2
Q 2EB	C-2
Q 2EC	B-2
Q 5BA	E-3
Q 5BB	E-3
Q 5BD	E-3
Q 5ZA	C-2
S 5AA	D-3
TP2AB	A-3
TP2AC	A-3
TP2AD	B-2
TP2AG	A-3
TP2AH	C-2
TP5AA	E-2
TP5AB	E-2
TP5AC	E-2
TP5AE	D-3
TP5AF	D-2
TP5AH	D-3
TP5AJ	D-3
VR2AA	A-3
VR2AB	A-3
VR2EC	B-3
X2EA	C-3

PCB-AE (S-SIDE)

SYMBOL NO.	ADDRESS
D 2EA	C-1
D 5MA	B-1
D 5MB	B-1
IC2AB	B-2
IC2AC	C-2
IC2AE	A-3
IC5AA	D-2
IC5AG	E-3
IC5BC	E-1
Q 2AA	A-1
Q 2AB	A-1
Q 2ED	A-1
Q 2EE	A-1
Q 5BC	D-1
Q 5FA	C-2
Q 5LA	D-2
Q 5ZB	C-2
TP2AE	C-1
TP2AF	A-3
VC2EA	C-1

PCB-H/A(C-SIDE)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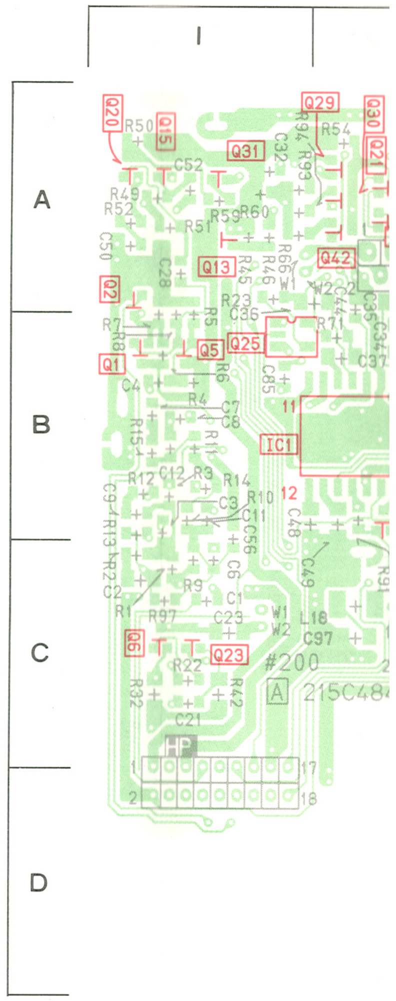
3
A
B
C
D
PWB-H/A #200
Q17
Q18
Q14
Q2E1
Q28
Q22
Q2
Q3
Q4
Q32
IC0
HT
HD
HE
HP
#3200
928C603 01.02.03.04.05.06

PCB-H/A(S-SIDE)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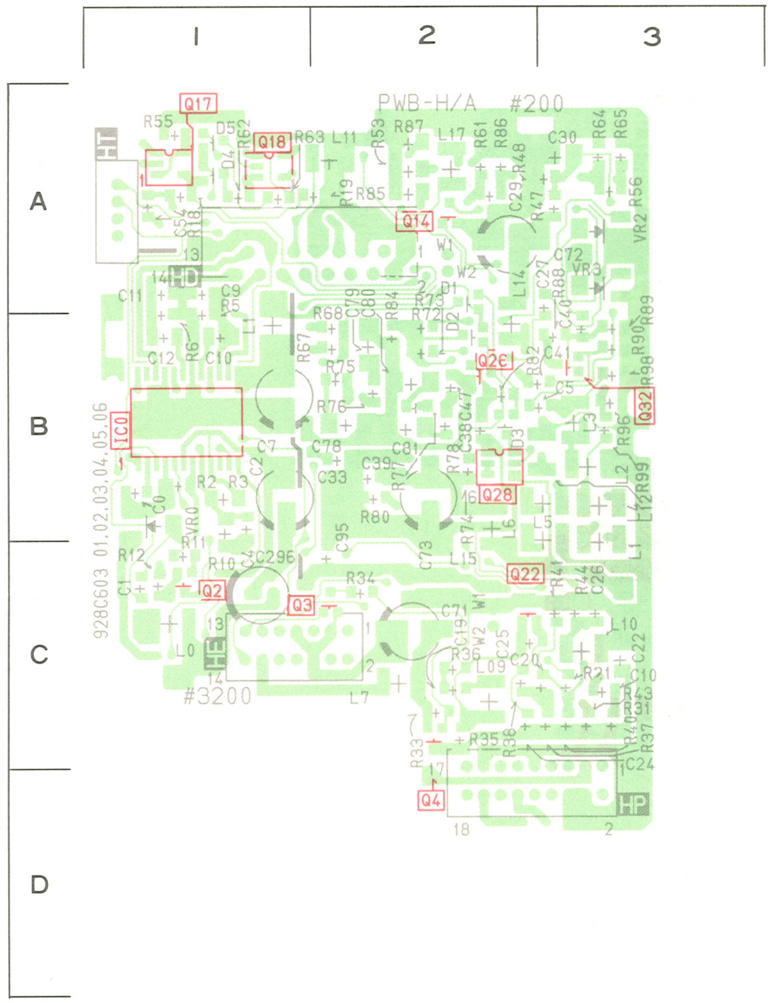
B
C
D
Q20
Q15
Q31
Q29
Q30
Q21
Q13
Q42
Q2
Q1
Q5
Q25
IC1
Q6
Q23
HP
#200
A 215C48

PCB-H/A(C-SIDE)



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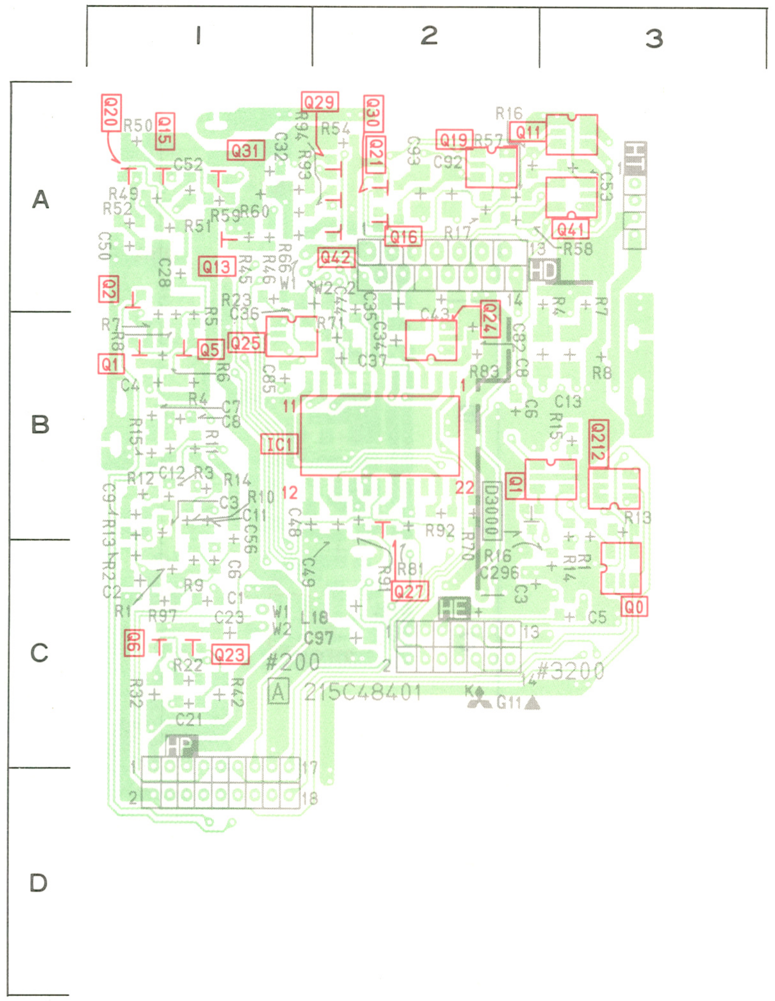

PCB-H/A(C-SIDE)

SYMBOL NO.	ADDRESS
C 205	B-3
C 210	C-3
C 219	C-2
C 220	C-3
C 222	C-3
C 224	C-2
C 225	C-3
C 226	C-3
C 227	A-3
C 229	A-2
C 230	A-3
C 233	B-2
C 238	B-2
C 239	B-2
C 240	A-3
C 241	B-3
C 247	B-2
C 254	A-1
C 271	C-2
C 272	A-2
C 273	B-2
C 278	B-2
C 279	B-2
C 280	B-2
C 281	B-2
C 295	C-2
C 296	C-1
C 3200	B-1
C 3201	C-1
C 3202	B-1
C 3204	C-1
C 3207	B-1
C 3209	A-1
C 3210	A-2
C 3211	A-1
C 3212	A-2
D 201	A-2
D 202	B-2
D 203	B-2
D 204	A-1
D 205	A-1
IC3200	B-1
L 201	C-3
L 202	B-3
L 203	B-3
L 204	B-3
L 205	B-3
L 206	B-3
L 207	C-2
L 209	C-2
L 210	C-3
L 211	A-2
L 212	B-3
L 214	B-2
L 215	B-2
L 217	A-2
L 3200	C-1
L 3201	B-1
Q 203	C-2
Q 204	D-2
Q 214	A-2
Q 217	A-1
Q 218	A-1
Q 222	C-2
Q 226	B-2
Q 228	B-2
Q 232	B-3
Q 3202	C-1
R 218	A-1
R 219	A-2
R 221	C-3
R 231	C-3
R 233	C-2
R 234	C-2
R 235	C-2

SYMBOL NO.	ADDRESS
R 236	C-2
R 237	C-3
R 238	C-2
R 240	C-3
R 241	C-3
R 243	C-3
R 244	C-3
R 247	A-3
R 248	A-3
R 253	A-2
R 255	A-1
R 256	A-3
R 261	A-2
R 262	A-1
R 263	A-1
R 264	A-3
R 265	A-3
R 267	B-2
R 268	B-2
R 272	B-2
R 273	B-2
R 274	B-2
R 275	B-2
R 276	B-2
R 277	B-2
R 278	B-2
R 280	B-2
R 282	B-2
R 284	B-2
R 285	A-2
R 286	A-2
R 287	A-2
R 288	B-3
R 289	B-3
R 290	B-3
R 296	B-3
R 298	B-3
R 299	B-3
R 3202	B-1
R 3203	B-1
R 3205	A-1
R 3206	A-1
R 3210	C-1
R 3211	C-1
R 3212	C-1
VR202	A-3
VR203	A-3
VR3200	B-1

PCB-H/A(S-SIDE)

SYMBOL NO.	ADDRESS
C 201	C-1
C 202	C-1
C 203	B-1
C 204	B-1
C 206	C-1
C 207	B-1
C 208	B-1
C 209	B-1
C 211	B-1
C 212	B-1
C 221	C-1
C 223	C-1
C 228	A-1
C 232	A-1
C 234	B-2
C 235	A-2
C 236	A-1
C 237	B-2
C 243	A-2
C 244	A-2
C 248	B-1
C 249	B-2
C 250	A-1
C 252	A-1
C 253	A-3
C 256	B-1
C 282	B-2
C 285	B-1
C 292	A-2
C 293	A-2
C 297	C-2
C 3203	C-2
C 3205	C-3
C 3206	B-2
C 3208	B-2
C 3213	B-3
D 3000	B-2
IC201	B-2
L 218	C-2
Q 201	B-1
Q 202	A-1
Q 205	B-1
Q 206	C-1
Q 211	A-3
Q 212	B-3
Q 213	A-1
Q 215	A-1
Q 216	A-2
Q 219	A-2
Q 220	A-1
Q 221	A-2
Q 223	C-1
Q 224	B-2
Q 225	B-1
Q 227	B-2
Q 229	A-2
Q 230	A-2
Q 231	A-1
Q 241	A-3
Q 242	A-2
Q 3200	C-3
Q 3201	B-3
R 201	C-1
R 202	C-1
R 203	B-1
R 204	B-1
R 205	A-1
R 206	B-1
R 207	A-1
R 208	A-1
R 209	C-1
R 210	B-1
R 211	B-1
R 212	B-1
R 213	B-1

SYMBOL NO.	ADDRESS
R 214	B-1
R 215	B-1
R 216	A-2
R 217	A-2
R 222	C-1
R 223	A-1
R 232	C-1
R 242	C-1
R 245	A-1
R 246	A-1
R 249	A-1
R 250	A-1
R 251	A-1
R 252	A-1
R 254	A-2
R 257	A-2
R 258	A-2
R 259	A-1
R 260	A-1
R 266	A-1
R 270	B-2
R 271	B-2
R 281	B-2
R 283	B-2
R 291	B-2
R 292	B-2
R 293	A-1
R 294	A-1
R 297	C-1
R 3201	B-3
R 3204	A-3
R 3207	A-3
R 3208	B-3
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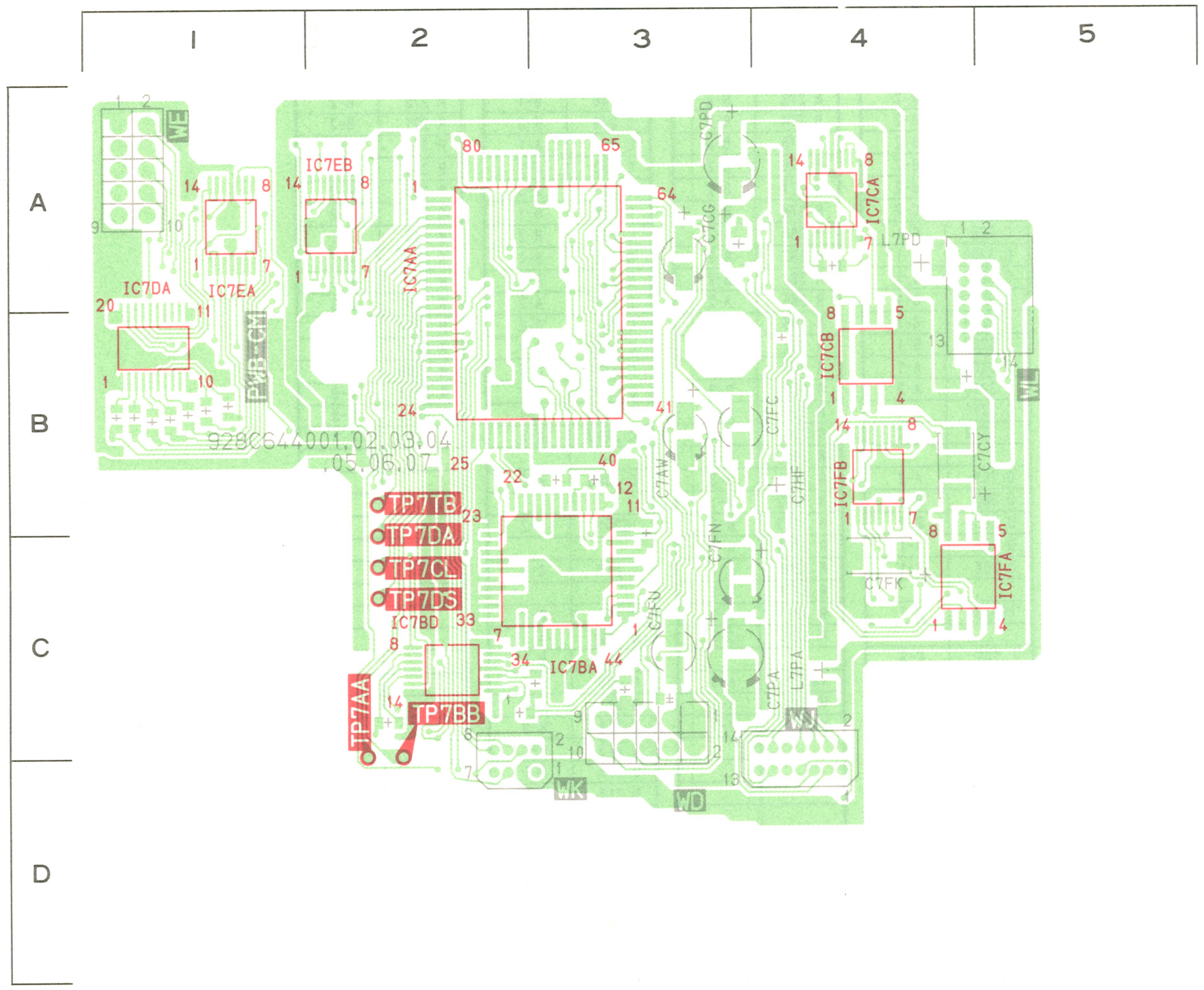
R 3215	B-3
R 3216	C-3

PCB-CM(C-SIDE)



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A
B
C
D
WE
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IC7DA
IC7EA
IC7AA
IC7CA
L7PD
IC7CB
IC7FB
IC7FA
C7PD
C7CG
C7FC
C7AW
C7HF
C7CY
C7FK
C7FN
C7FU
C7PA
L7PA
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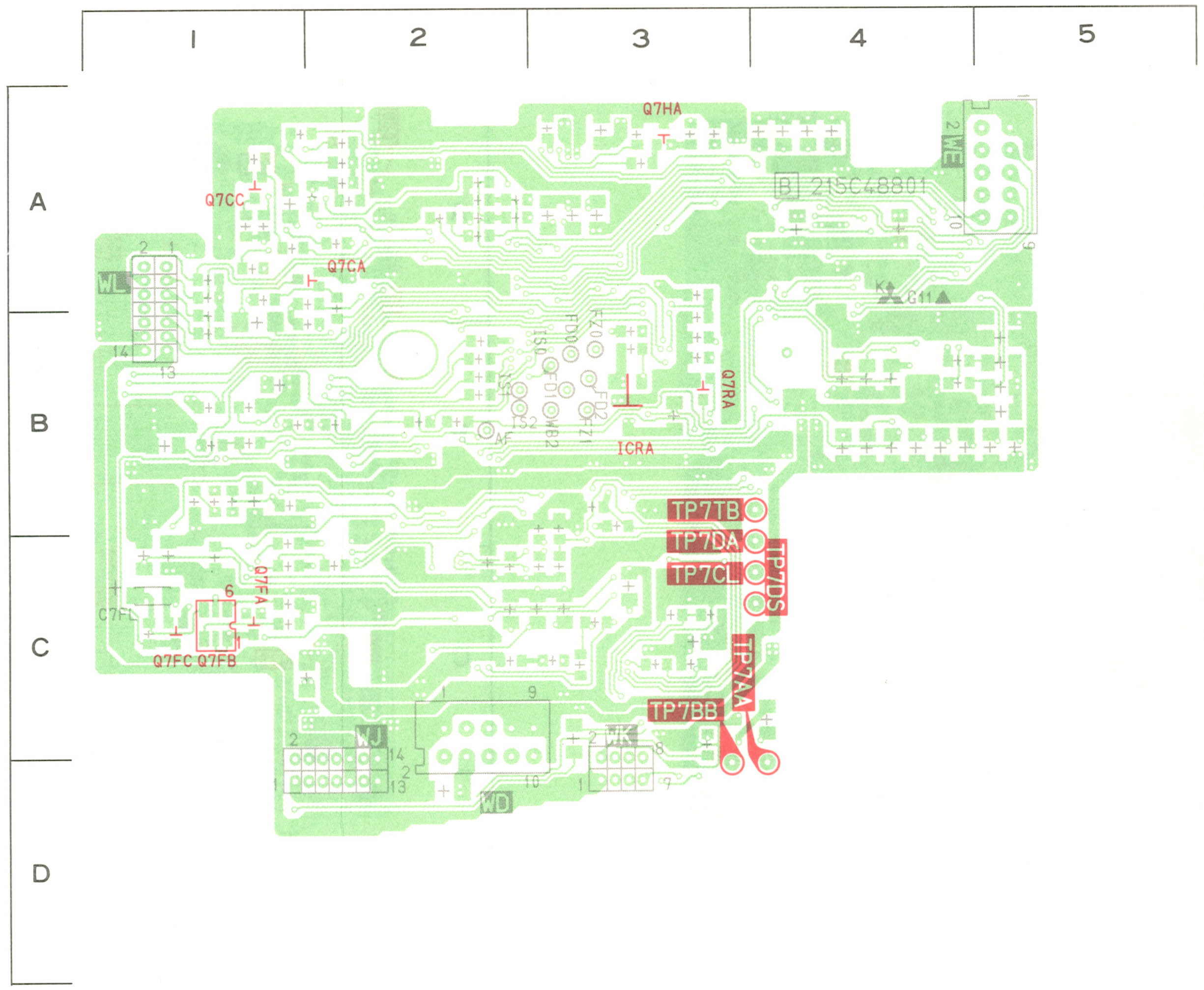
WD
WJ
WL

PCB-CM(S-SIDE)



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Q7CA
WL
WE
2150488O1
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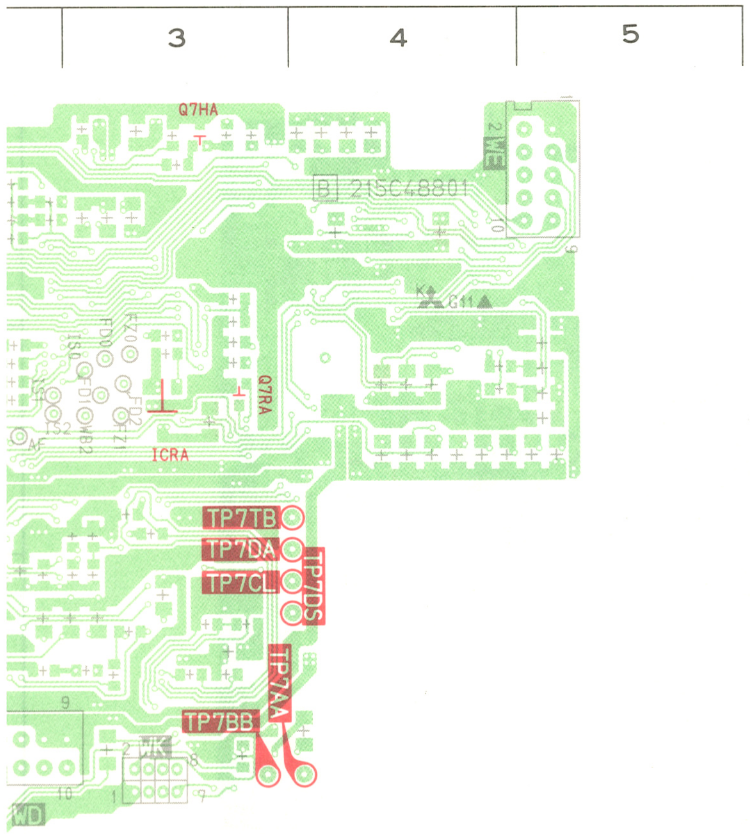
ICRA
Q7FA
C7FL
Q7FC
Q7FB
TP7TB
TP7DA
TP7CL
TP7DS
TP7AA
TP7BB
WJ
WK
WD

PCB-CM(C-SIDE)

SYMBOL NO.	ADDRESS
C 7AW	B-3
C 7CG	A-3
C 7CY	B-4
C 7FC	B-3
C 7FK	C-4
C 7FN	C-3
C 7FU	C-3
C 7HF	B-4
C 7PA	C-3
C 7PD	A-3
IC7AA	A-2
IC7BA	C-3
IC7BD	C-2
IC7CA	A-4
IC7CB	B-4
IC7DA	B-1
IC7EA	A-1
IC7EB	A-2
IC7FA	C-4
IC7FB	B-4
L 7PA	C-4
L 7PD	A-4
TP7AA	C-2
TP7BB	C-2
TP7CL	C-2
TP7DA	C-2
TP7DS	C-2
TP7TB	B-2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K G11
Q7RA
ICRA
TP7TB
TP7DA
TP7CL
TP7DS
TP7AA
TP7BB
WK
WD

PCB-CM(C-SIDE)

SYMBOL NO.	ADDRESS
C 7AW	B-3
C 7CG	A-3
C 7CY	B-4
C 7FC	B-3
C 7FK	C-4
C 7FN	C-3
C 7FU	C-3
C 7HF	B-4
C 7PA	C-3
C 7PD	A-3
IC7AA	A-2
IC7BA	C-3
IC7BD	C-2
IC7CA	A-4
IC7CB	B-4
IC7DA	B-1
IC7EA	A-1
IC7EB	A-2
IC7FA	C-4
IC7FB	B-4
L 7PA	C-4
L 7PD	A-4
TP7AA	C-2
TP7BB	C-2
TP7CL	C-2
TP7DA	C-2
TP7DS	C-2
TP7TB	B-2

PCB-CM(S-SIDE)

SYMBOL NO.	ADDRESS
IC7RA	B-3
Q 7CA	A-2
Q 7CC	A-1
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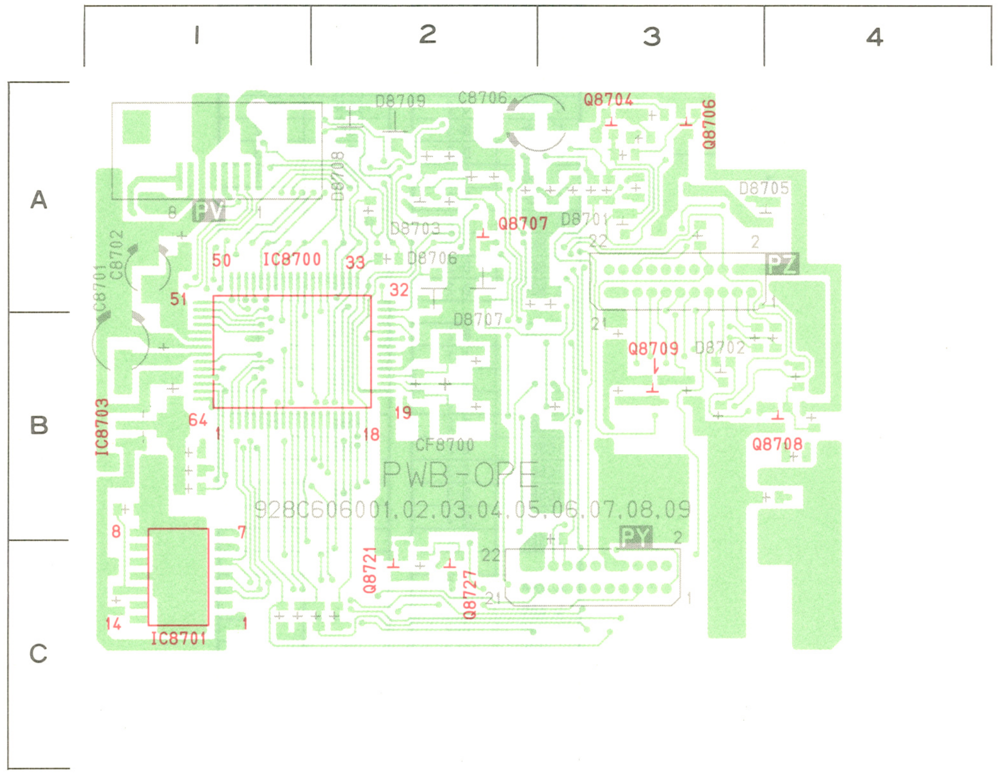
Q 7FB	C-1
Q 7FC	C-1
Q 7HA	A-3
Q 7RA	B-3

PCB-OPE(C-SIDE)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IC8700
33
51
32
Q8707
D8703
D8706
D8701
D8707
D8705
PZ
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D8702
64
19
18
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928C606001,02,03,04,05,06,07,08,09
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IC8701
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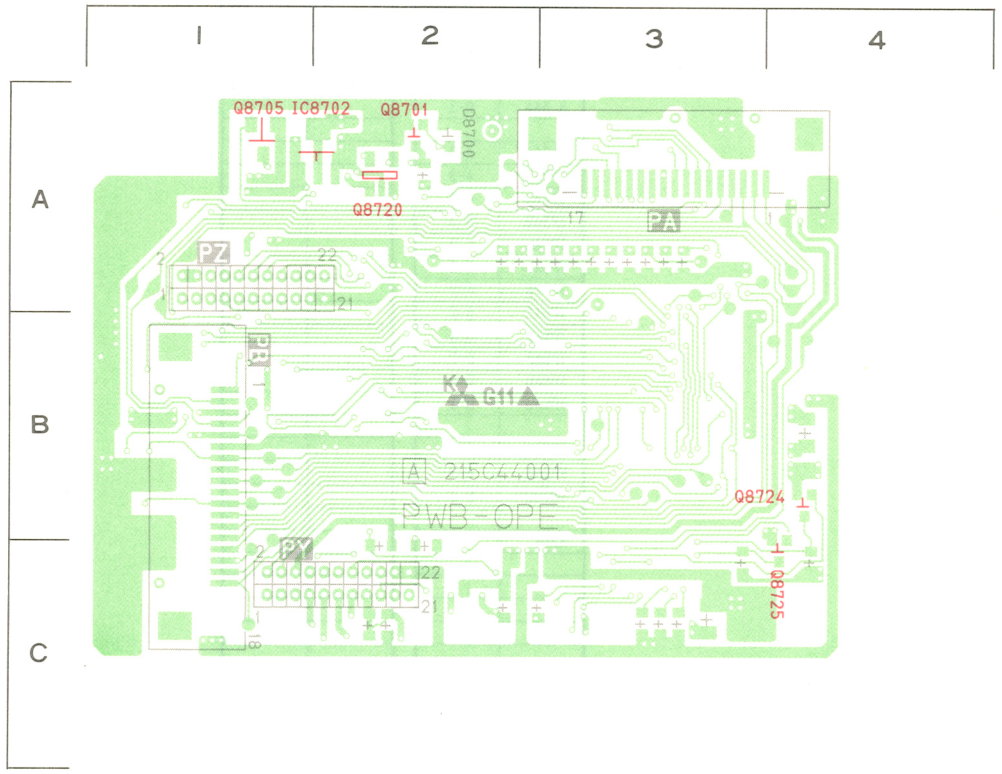
PCB-OPE(S-SIDE)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PZ
PB
K G11
A 215C44001
PWB-OPE
Q8724
PY
Q8725

PCB-OPE(C-SIDE)

SYMBOL NO.	ADDRESS
C 8701	B-1
C 8702	A-1
C 8706	A-2
CF8700	B-2
D 8701	A-3
D 8702	B-3
D 8703	A-2
D 8705	A-4
D 8706	A-2
D 8707	A-2
D 8708	A-2
D 8709	A-2
IC8700	B-1
IC8701	C-1
IC8703	B-1
Q 8704	A-3
Q 8706	A-3
Q 8707	A-2
Q 8708	B-4
Q 8709	B-3
Q 8721	C-2
Q 8727	C-2

PCB-OPE(S-SIDE)

SYMBOL NO.	ADDRESS
D 8700	A-2
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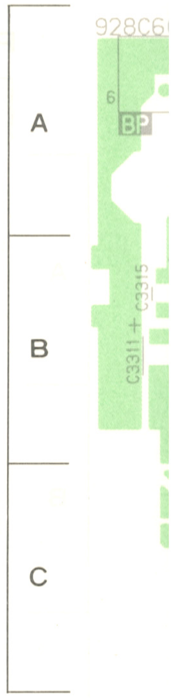
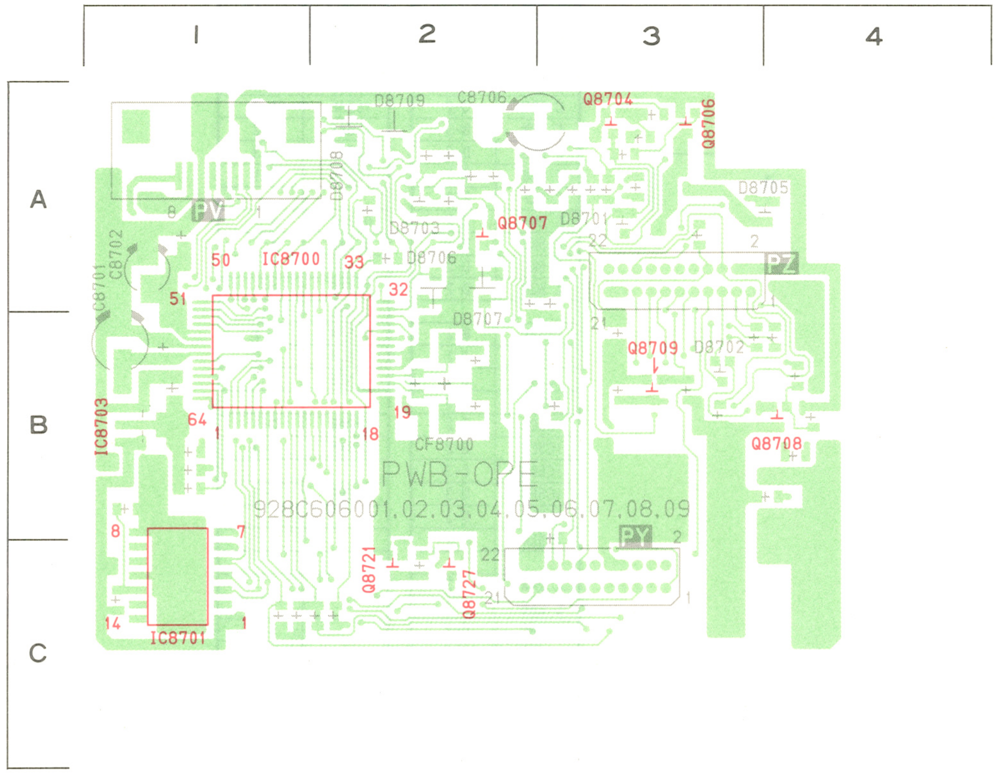
Q 8705	A-1
Q 8720	A-2
Q 8724	B-4
Q 8725	C-4

PCB-



PCB-

PCB-OPE(C-SIDE)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Q8707
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C8701
C8702
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IC8700
33
D8706
PZ
32
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D8707
Q8709
D8702
IC8703
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19
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CF8700
Q8708
PWB-OPE
928C606001,02,03,04,05,06,07,08,09
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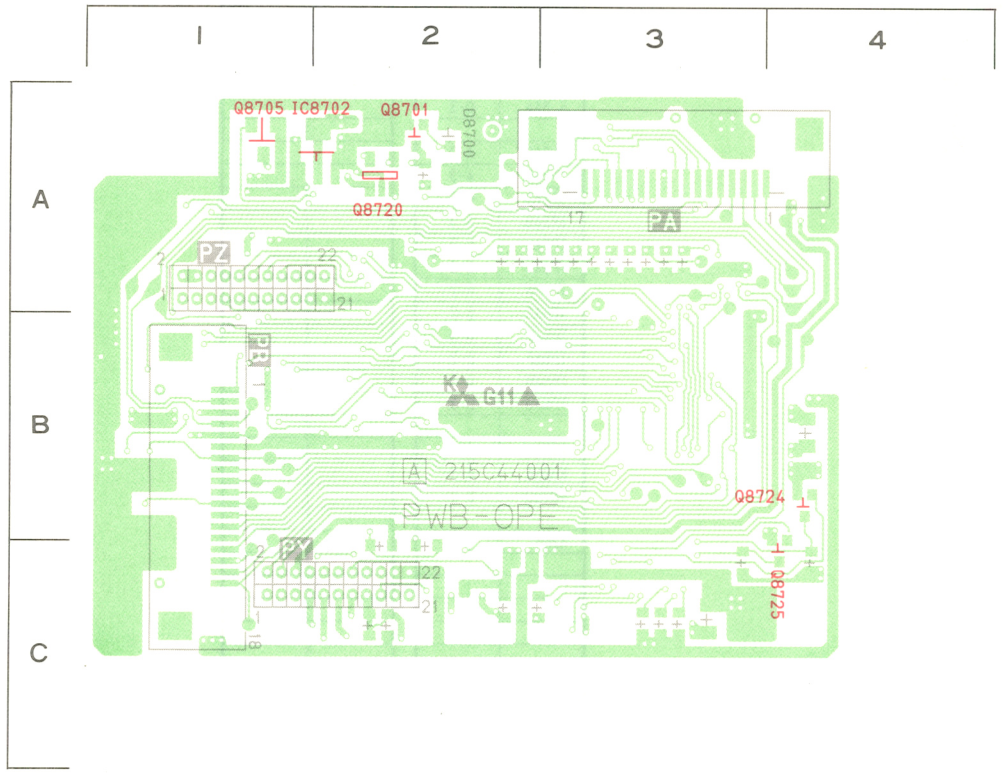
PCB-OPE(S-SIDE)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Q8701
D8700
Q8720
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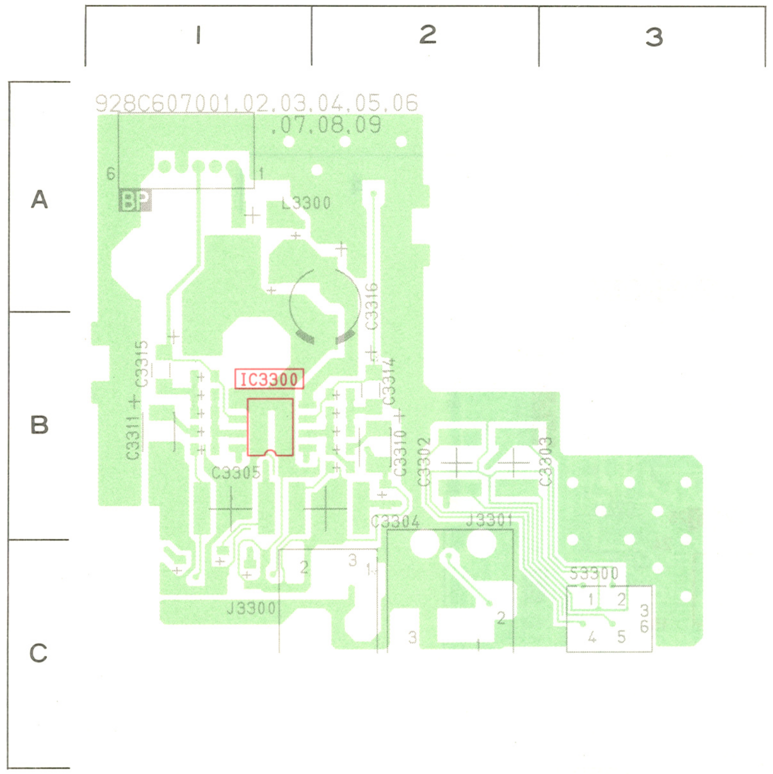
PB
G11
215C44001
PWB-OPE
Q8724
PY
22
21
Q8725

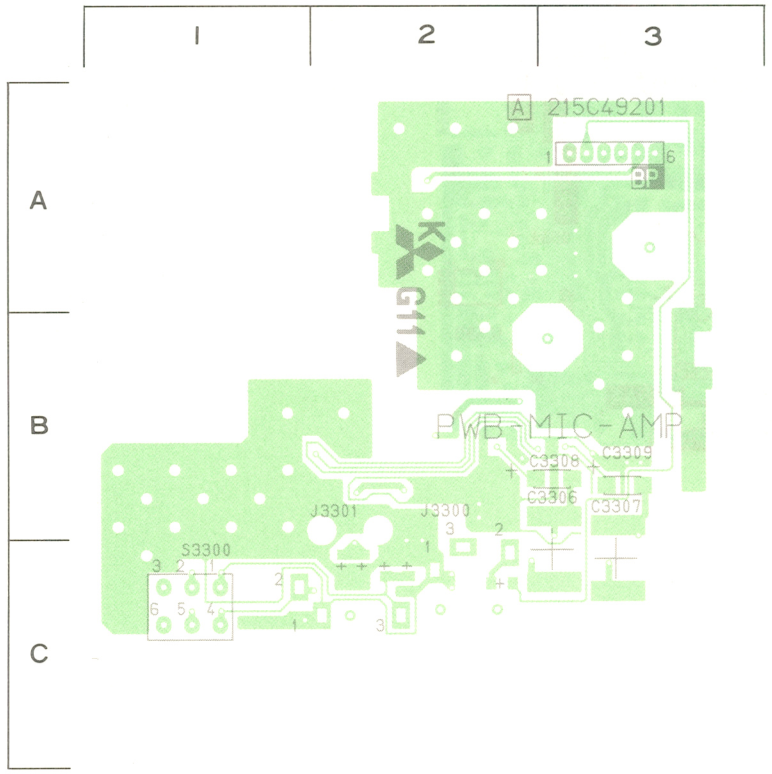
PCB-OPE(C-SIDE) SYMBOL NO.	ADDRESS
C 8701	B-1
C 8702	A-1
C 8706	A-2
CF8700	B-2
D 8701	A-3
D 8702	B-3
D 8703	A-2
D 8705	A-4
D 8706	A-2
D 8707	A-2
D 8708	A-2
D 8709	A-2
IC8700	B-1
IC8701	C-1
IC8703	B-1
Q 8704	A-3
Q 8706	A-3
Q 8707	A-2
Q 8708	B-4
Q 8709	B-3
Q 8721	C-2
Q 8727	C-2

PCB-OPE(S-SIDE) SYMBOL NO.	ADDRESS
D 8700	A-2
IC8702	A-2
Q 8701	A-2
Q 8705	A-1
Q 8720	A-2
Q 8724	B-4
Q 8725	C-4

PCB-MIC-AMP(C-SIDE)


1
2
3
A
B
C
928C607001,02,03,04,05,06
,07,08,09
BP
L3300
C3316
C3315
C3311
IC3300
C3314
C3310
C3302
C3303
C3305
C3304
J3301
J3300
S3300

PCB-MIC-AMP(S-SIDE)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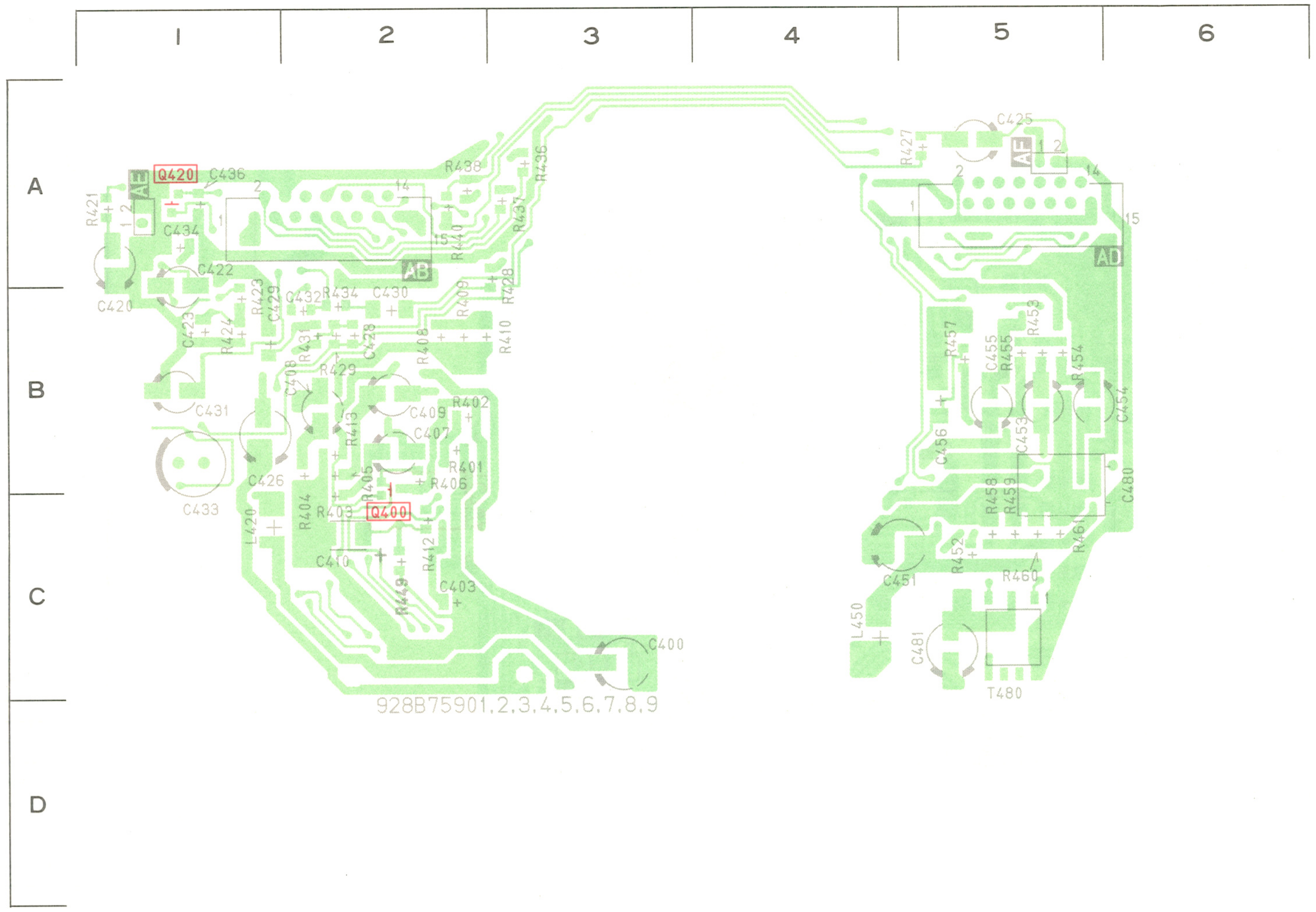
2
3
A
B
C
A 215C49201
BP
G11
PWB-MIC-AMP
C3308
C3309
C3306
C3307
J3301
J3300
S3300

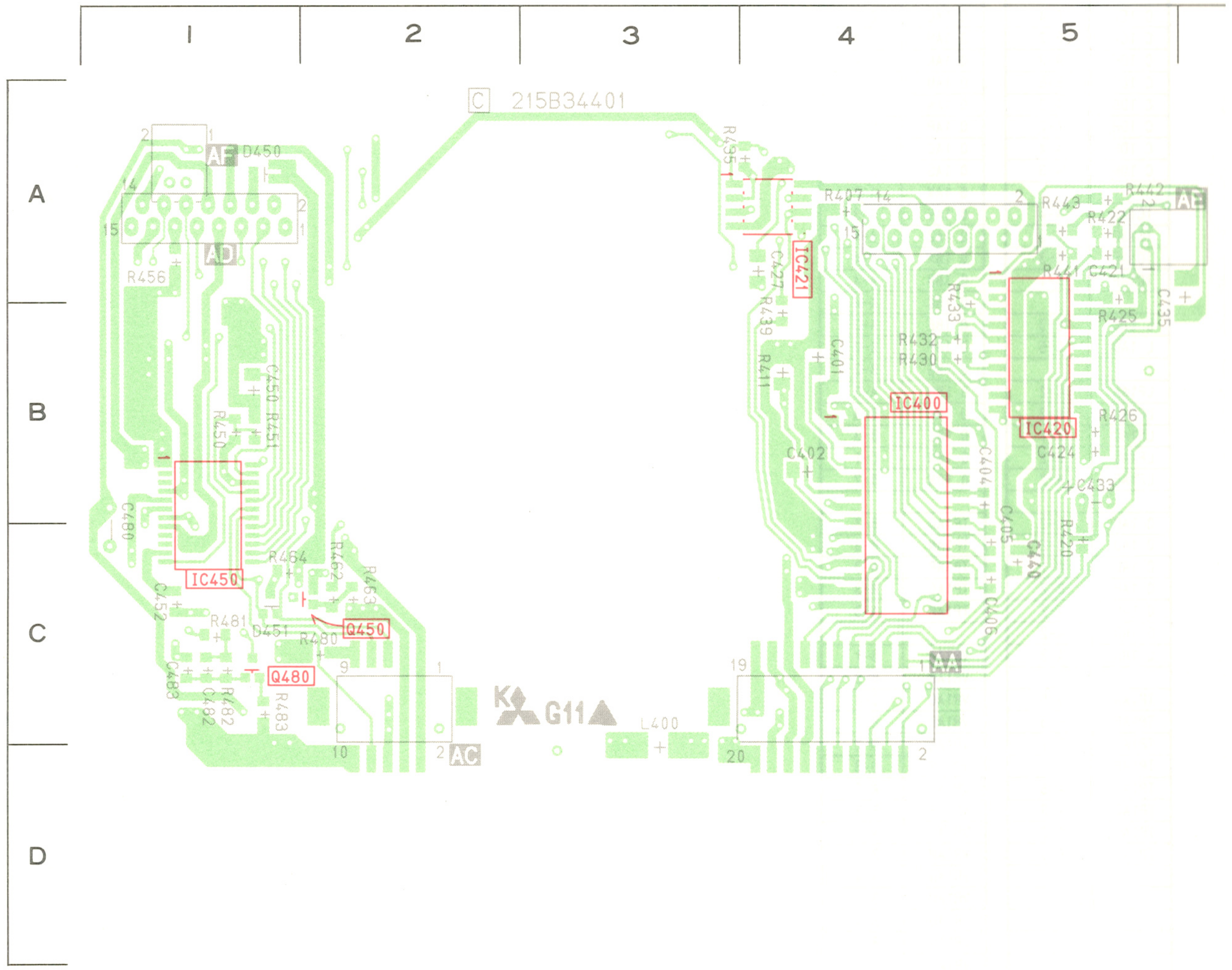
PCB-MIC-AMP (C-SIDE) SYMBOL NO.	ADDRESS
C 3302	B-2
C 3303	B-2
C 3304	B-2
C 3305	B-1
C 3310	B-2
C 3311	B-1
C 3314	B-2
C 3315	B-1
C 3316	A-2
IC3300	B-1
J 3300	C-1
J 3301	C-2
L 3300	A-1
S 3300	C-3

PCB-MIC-AMP (S-SIDE) SYMBOL NO.	ADDRESS
C 3306	C-3
C 3307	C-3
C 3308	B-2
C 3309	B-3

PCB-MDA(C-SIDE)


1
2
3
4
5
6
A
B
C
D
Q420
Q400
AB
AD
AE
AF
928B75901.2.3.4.5.6.7.8.9
T480

PCB-MDA(S-SIDE)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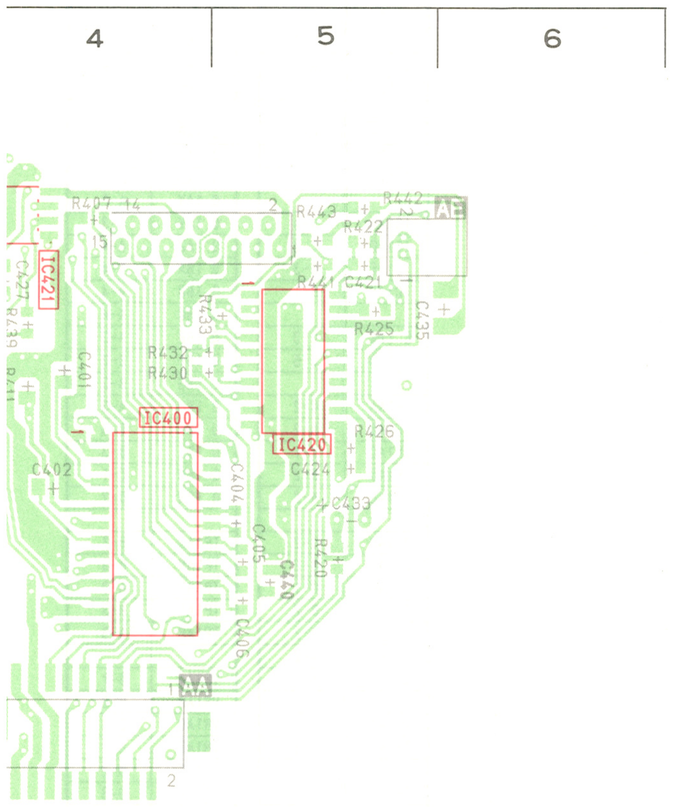
2
3
4
5
A
B
C
D
215B34401
IC400
IC420
IC421
IC450
Q450
Q480
AA
AC
AD
AE
AF
G11


4
5
6
R407
R443
R442
AE
R422
IC421
R441
C421
R425
R432
R430
IC400
IC420
R426
C402
C424
C403
R420
C405
C440
C406
AA

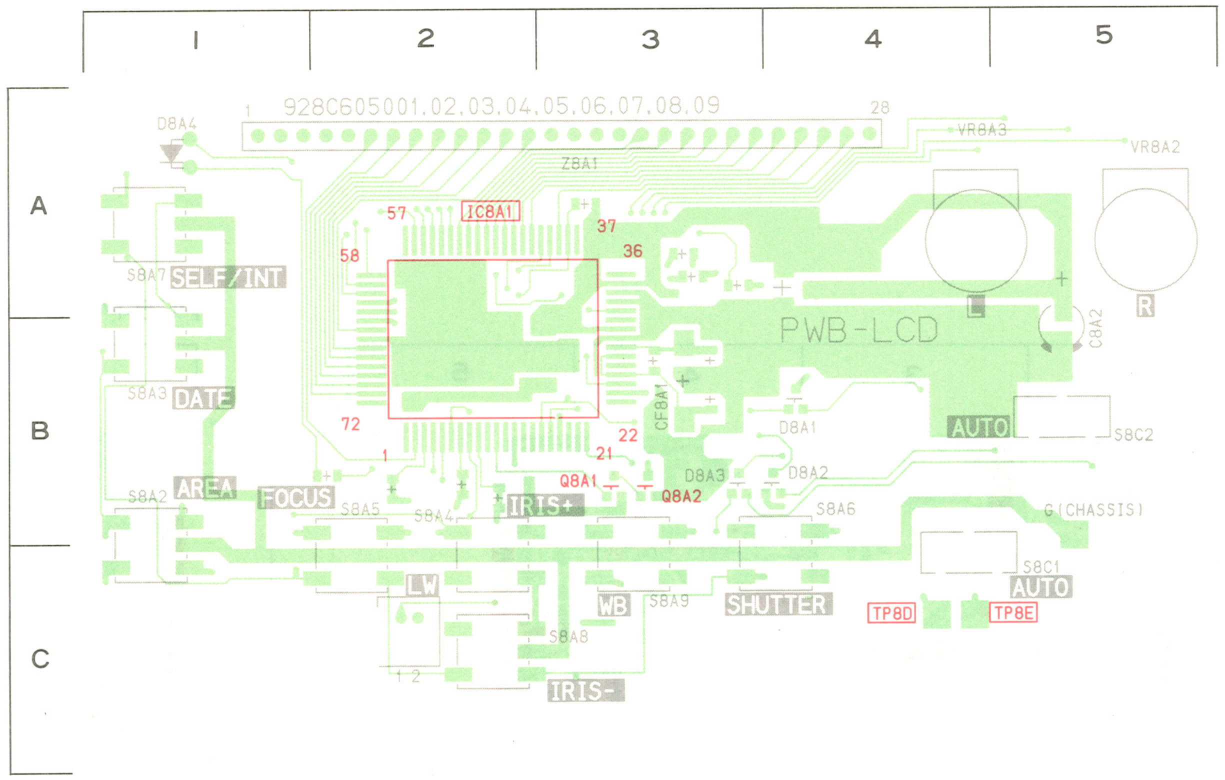
PCB-MDA (C-SIDE)

SYMBOL NO.	ADDRESS
C 400	C-3
C 403	C-2
C 407	B-2
C 408	B-2
C 409	B-2
C 410	C-2
C 420	A-1
C 422	A-1
C 423	B-1
C 425	A-5
C 426	B-1
C 428	B-2
C 429	B-1
C 430	B-2
C 431	B-1
C 432	B-2
C 433	B-1
C 434	A-1
C 436	A-1
C 451	C-5
C 453	B-5
C 454	B-5
C 455	B-5
C 456	B-5
C 480	C-5
C 481	C-5
L 420	C-1
L 450	C-4
Q 400	C-2
Q 420	A-1
R 401	B-2
R 402	B-2
R 403	B-2
R 404	B-2
R 405	B-2
R 406	B-2
R 408	B-2
R 409	B-2
R 410	B-3
R 412	C-2
R 413	B-2
R 421	A-1
R 423	B-1
R 424	B-1
R 427	A-5
R 428	A-3
R 429	B-2
R 431	B-2
R 434	B-2
R 436	A-3
R 437	A-3
R 438	A-2
R 440	A-2
R 449	C-2
R 452	C-5
R 453	B-5
R 454	B-5
R 455	B-5
R 457	B-5
R 458	C-5
R 459	C-5
R 460	C-5
R 461	C-5
T 480	C-5

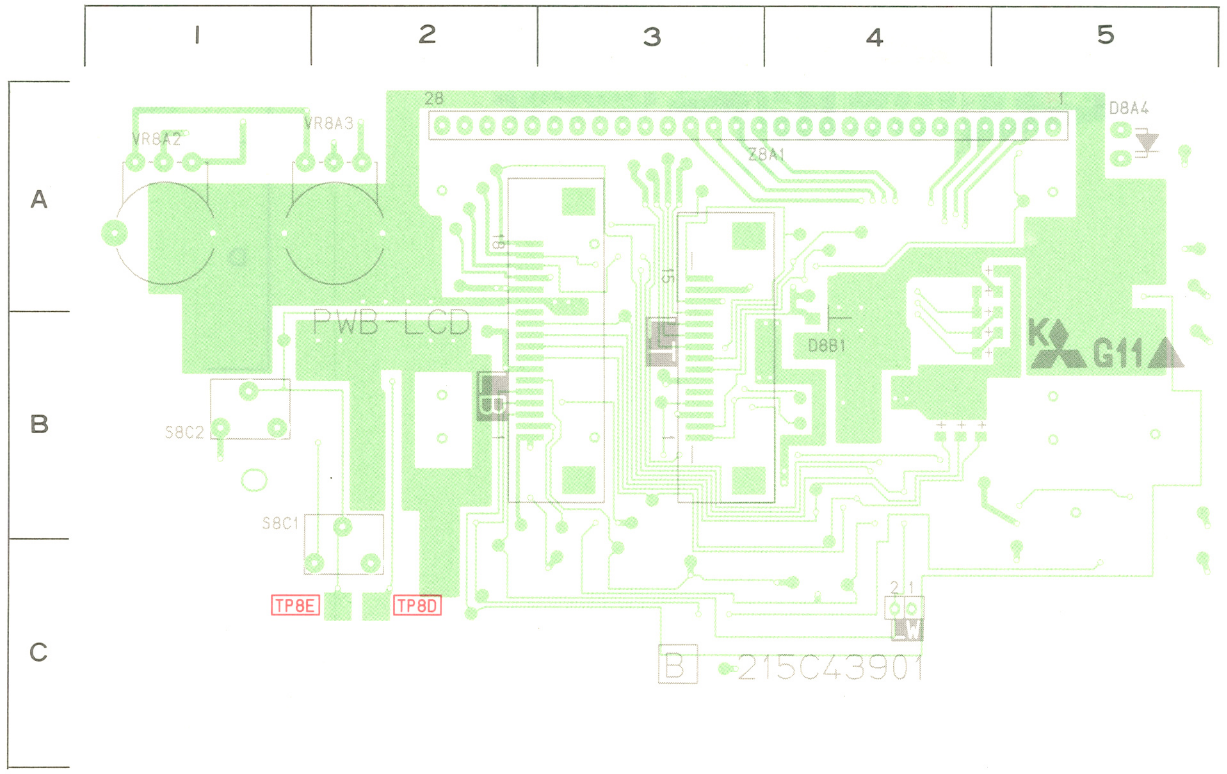
PCB-MDA (S-SIDE)

SYMBOL NO.	ADDRESS
C 401	B-4
C 402	B-4
C 404	B-5
C 405	C-5
C 406	C-5
C 421	A-5
C 424	B-5
C 427	A-4
C 435	A-5
C 440	C-5
C 450	B-1
C 452	C-1
C 482	C-1
C 483	C-1
D 450	A-1
D 451	C-1
IC400	B-4
IC420	B-5
IC421	A-4
IC450	C-1
L 400	C-3
Q 450	C-1
Q 480	C-1
R 407	A-4
R 411	B-4
R 420	C-5
R 422	A-5
R 425	B-5
R 426	B-5
R 430	B-4
R 432	B-4
R 433	B-5
R 435	A-3
R 439	B-4
R 441	A-5
R 442	A-5
R 443	A-5
R 450	B-1
R 451	B-1
R 456	A-1
R 462	C-2
R 463	C-2
R 464	C-1
R 480	C-2
R 481	C-1
R 482	C-1
R 483	C-1

PCB-LCD(C-SIDE)


1
2
3
4
5
A
B
C
928C605001.02.03.04.05.06.07.08.09
28
D8A4
VR8A3
VR8A2
Z8A1
IC8A1
57
37
36
58
S8A7
SELF/INT
PWB-LCD
S8A3
DATE
72
22
21
CF8A1
D8A1
AUTO
S8C2
C8A2
R
L
S8A2
AREA
FOCUS
S8A5
S8A4
IRIS+
Q8A1
Q8A2
D8A3
D8A2
S8A6
(CHASSIS)
LW
WB
S8A9
SHUTTER
TP8D
TP8E
S8C1
AUTO
S8A8
IRIS-

PCB-LCD(S-SIDE)


1
2
3
4
5
A
B
C
28
1
D8A4
VR8A2
VR8A3
Z8A1
PWB-LCD
D8B1
G11
S8C2
S8C1
TP8E
TP8D
LW
B
215C43901

PCB-LCD (C-SIDE)

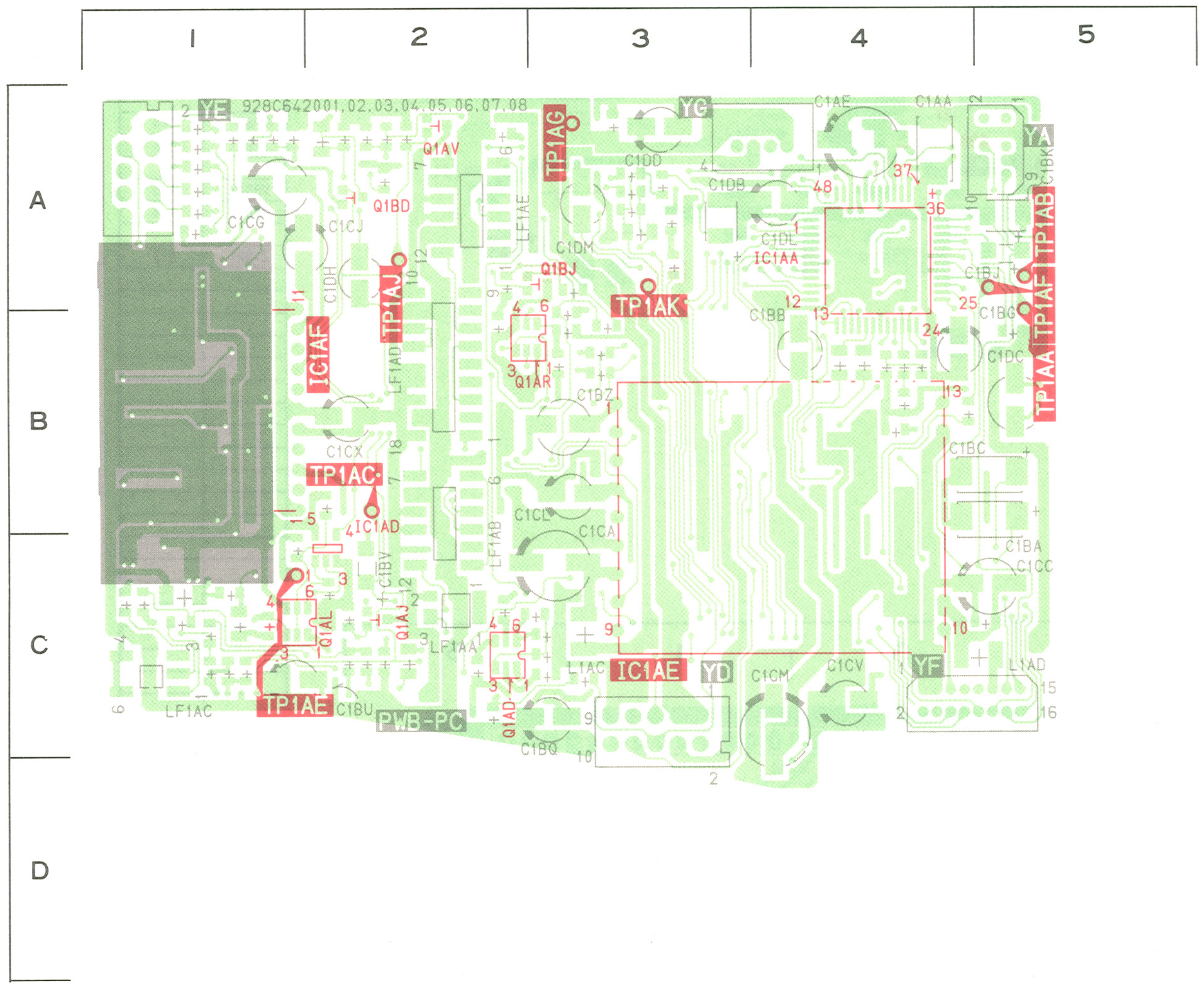
SYMBOL NO.	ADDRESS
C 8A2	B-5
CF8A1	B-3
D 8A1	B-4
D 8A2	B-4
D 8A3	B-3
D 8A4	A-1
IC8A1	B-2
Q 8A1	B-3
Q 8A2	B-3
S 8A2	B-1
S 8A3	B-1
S 8A4	B-2
S 8A5	B-2
S 8A6	B-4
S 8A7	A-1
S 8A8	C-2
S 8A9	C-3
S 8C1	C-4
S 8C2	B-5
TP8D	C-4
TP8E	C-5
VR8A2	A-5
VR8A3	A-4
Z 8A1	A-3

PCB-LCD (S-SIDE)

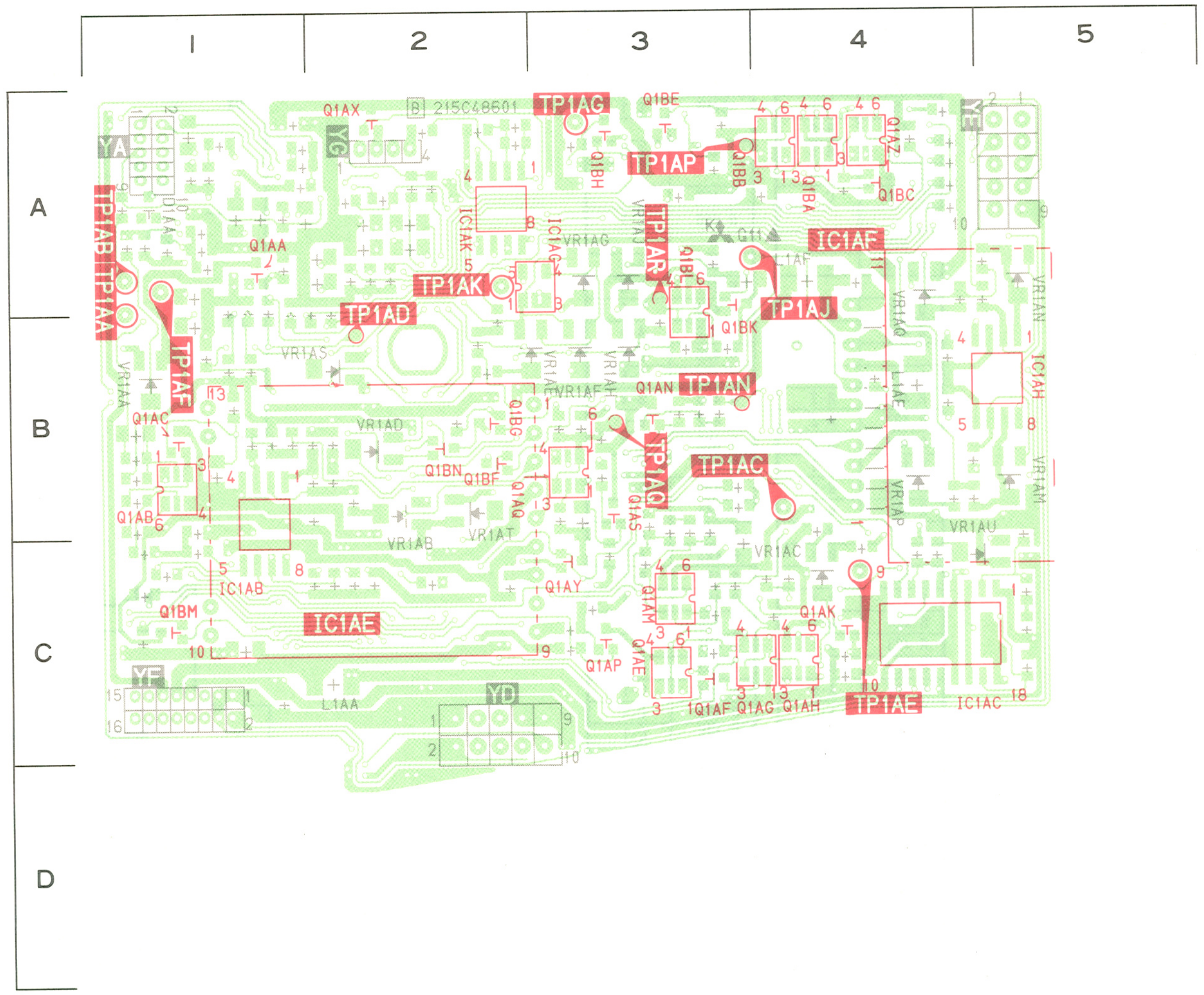
SYMBOL NO.	ADDRESS
D 8B1	B-4

HS-C50A
HS-C50B
HS-C50E(10/10)

PCB-PC(C-SIDE)


1
2
3
4
5
A
B
C
D
928C642001,02,03,04,05,06,07,08
YE
YC
YA
YD
YF
PWB-PC
TP1AG
TP1AK
TP1AJ
TP1AC
TP1AE
TP1AB
TP1AF
TP1AA
IC1AF
IC1AE
IC1AD
IC1AA
Q1AV
Q1BD
Q1BJ
Q1AR
Q1AL
Q1AJ
Q1AD
C1AE
C1AA
C1DD
C1DB
C1DM
C1DL
C1DH
C1CG
C1CJ
C1BB
C1BZ
C1CL
C1CA
C1CX
C1BV
C1BU
C1BQ
C1CM
C1CV
C1BA
C1CC
C1BC
C1BJ
C1BG
C1DC
C1BK
LF1AE
LF1AD
LF1AB
LF1AA
LF1AC
L1AC
L1AD

PCB-PC(S-SIDE)


1
2
3
4
5
A
B
C
D
215C48601
YA
YG
YE
YF
YD
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TP1AP
TP1AR
TP1AK
TP1AD
TP1AF
TP1AB
TP1AA
TP1AJ
TP1AN
TP1AQ
TP1AC
TP1AE
IC1AF
IC1AE
IC1AB
IC1AK
IC1AG
IC1AH
IC1AC
Q1AX
Q1BE
Q1BH
Q1BB
Q1BA
Q1AZ
Q1BC
Q1AA
Q1BF
Q1BK
Q1AN
Q1AC
Q1AB
Q1BN
Q1BG
Q1BM
Q1AY
Q1AM
Q1AS
Q1AE
Q1AP
Q1AF
Q1AG
Q1AH
Q1AK
D1AA
VR1AG
VR1AS
VR1AD
VR1AB
VR1AT
VR1AF
VR1AC
VR1AU
VR1AN
VR1AM
VR1AP
L1AA
L1AE
L1AF

PCB-PC(C-SIDE)

SYMBOL NO.	ADDRESS
C 1AA	A-4
C 1AE	A-4
C 1BA	B-5
C 1BB	B-4
C 1BC	B-5
C 1BG	B-4
C 1BK	A-5
C 1BQ	C-3
C 1BU	C-1
C 1BV	C-2
C 1BZ	B-3
C 1CA	C-3
C 1CC	C-5
C 1CG	A-1
C 1CJ	A-2
C 1CL	B-3
C 1CM	C-4
C 1CV	C-4
C 1CX	B-2
C 1DB	A-3
C 1DC	B-5
C 1DD	A-3
C 1DH	A-2
C 1DL	A-4
C 1DM	A-3
IC1AA	A-4
IC1AD	C-2
IC1AE	B-3
IC1AF	B-1
L 1AC	C-3
L 1AD	C-5
LF1AA	C-2
LF1AB	B-2
LF1AC	C-1
LF1AD	B-2
LF1AE	A-2
Q 1AD	C-2
Q 1AJ	C-2
Q 1AL	C-1
Q 1AR	B-2
Q 1AV	A-2
Q 1BD	A-2
Q 1BJ	A-3
TP1AA	B-5
TP1AB	A-5
TP1AC	B-2
TP1AE	C-1
TP1AF	A-5
TP1AG	A-3
TP1AJ	A-2
TP1AK	A-3

PCB-PC(S-SIDE)

SYMBOL NO.	ADDRESS
D 1AA	A-1
IC1AB	C-1
IC1AC	C-4
IC1AG	A-2
IC1AH	B-5
IC1AK	A-2
L 1AA	C-2
L 1AE	B-4
L 1AF	A-4
Q 1AA	A-1
Q 1AB	B-1
Q 1AC	B-1
Q 1AE	C-3
Q 1AF	C-3
Q 1AG	C-3
Q 1AH	C-4
Q 1AK	C-4
Q 1AM	C-3
Q 1AN	B-3
Q 1AP	C-3
Q 1AQ	B-3
Q 1AS	B-3
Q 1AX	A-2
Q 1AY	C-3
Q 1AZ	A-4
Q 1BA	A-4
Q 1BB	A-4
Q 1BC	A-4
Q 1BE	A-3
Q 1BF	B-2
Q 1BG	B-2
Q 1BH	A-3
Q 1BK	B-3
Q 1BL	B-3
Q 1BM	C-1
Q 1BN	B-2
TP1AD	B-2
TP1AN	B-3
TP1AP	A-3
TP1AQ	B-3
TP1AR	A-3
VR1AA	B-1
VR1AB	B-2
VR1AC	C-4
VR1AD	B-2
VR1AE	B-2
VR1AF	B-3
VR1AG	A-3
VR1AH	B-3
VR1AJ	A-3
VR1AM	B-4
VR1AN	A-4
VR1AP	B-4
VR1AQ	B-4
VR1AS	B-2
VR1AT	B-2
VR1AU	C-4

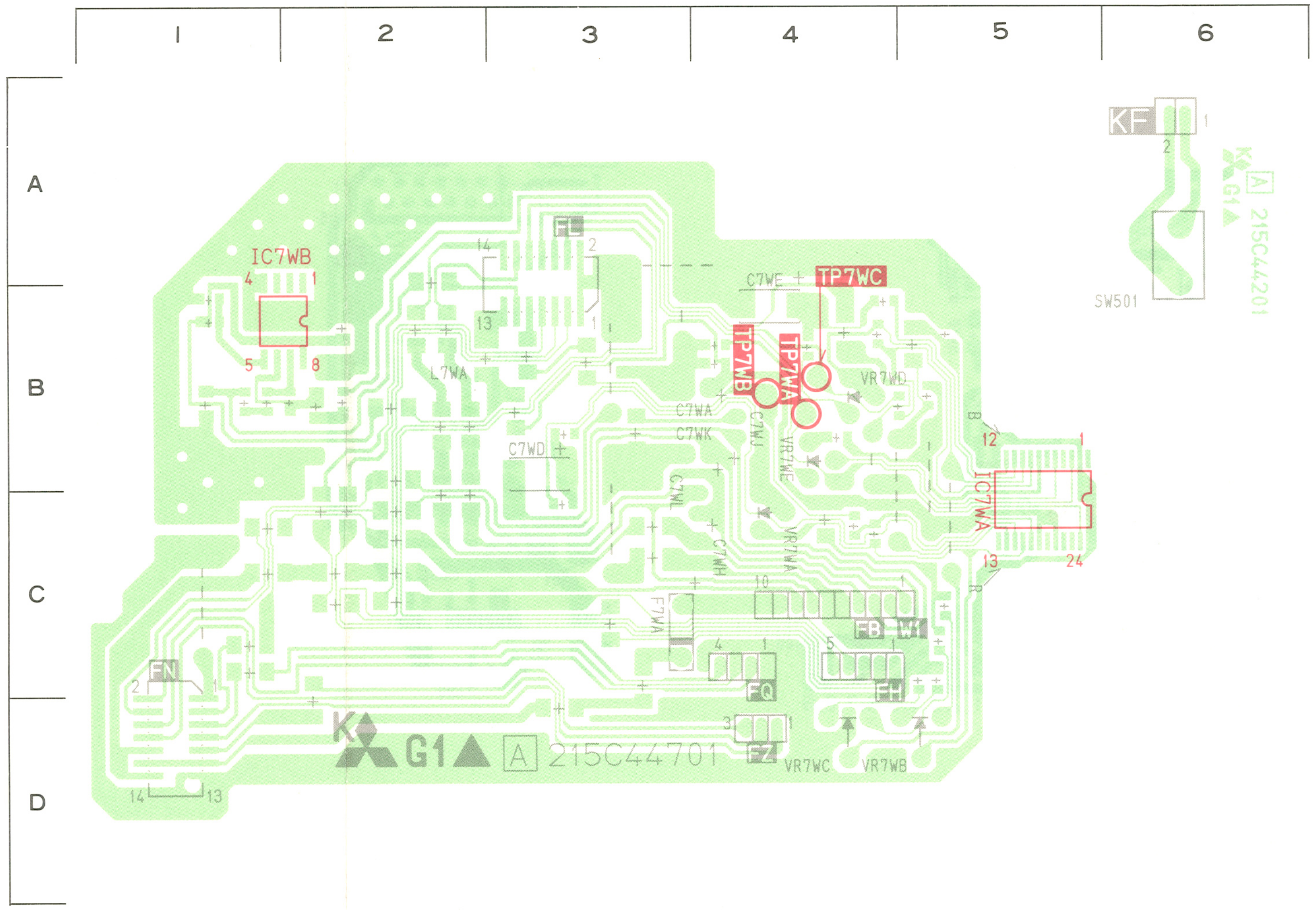
PCB-PC (C-SIDE)

SYMBOL NO.	ADDRESS
C 1AA	A-4
C 1AE	A-4
C 1BA	B-5
C 1BB	B-4
C 1BC	B-5
C 1BG	B-4
C 1BK	A-5
C 1BQ	C-3
C 1BU	C-1
C 1BV	C-2
C 1BZ	B-3
C 1CA	C-3
C 1CC	C-5
C 1CG	A-1
C 1CJ	A-2
C 1CL	B-3
C 1CM	C-4
C 1CV	C-4
C 1CX	B-2
C 1DB	A-3
C 1DC	B-5
C 1DD	A-3
C 1DH	A-2
C 1DL	A-4
C 1DM	A-3
IC1AA	A-4
IC1AD	C-2
IC1AE	B-3
IC1AF	B-1
L 1AC	C-3
L 1AD	C-5
LF1AA	C-2
LF1AB	B-2
LF1AC	C-1
LF1AD	B-2
LF1AE	A-2
Q 1AD	C-2
Q 1AJ	C-2
Q 1AL	C-1
Q 1AR	B-2
Q 1AV	A-2
Q 1BD	A-2
Q 1BJ	A-3
TP1AA	B-5
TP1AB	A-5
TP1AC	B-2
TP1AE	C-1
TP1AF	A-5
TP1AG	A-3
TP1AJ	A-2
TP1AK	A-3

PCB-PC (S-SIDE)

SYMBOL NO.	ADDRESS
D 1AA	A-1
IC1AB	C-1
IC1AC	C-4
IC1AG	A-2
IC1AH	B-5
IC1AK	A-2
L 1AA	C-2
L 1AE	B-4
L 1AF	A-4
Q 1AA	A-1
Q 1AB	B-1
Q 1AC	B-1
Q 1AE	C-3
Q 1AF	C-3
Q 1AG	C-3
Q 1AH	C-4
Q 1AK	C-4
Q 1AM	C-3
Q 1AN	B-3
Q 1AP	C-3
Q 1AQ	B-3
Q 1AS	B-3
Q 1AX	A-2
Q 1AY	C-3
Q 1AZ	A-4
Q 1BA	A-4
Q 1BB	A-4
Q 1BC	A-4
Q 1BE	A-3
Q 1BF	B-2
Q 1BG	B-2
Q 1BH	A-3
Q 1BK	B-3
Q 1BL	B-3
Q 1BM	C-1
Q 1BN	B-2
TP1AD	B-2
TP1AN	B-3
TP1AP	A-3
TP1AQ	B-3
TP1AR	A-3
VR1AA	B-1
VR1AB	B-2
VR1AC	C-4
VR1AD	B-2
VR1AE	B-2
VR1AF	B-3
VR1AG	A-3
VR1AH	B-3
VR1AJ	A-3
VR1AM	B-4
VR1AN	A-4
VR1AP	B-4
VR1AQ	B-4
VR1AS	B-2
VR1AT	B-2
VR1AU	C-4

PCB-WB(S-SIDE)& PCB-TRIGGER(S-SIDE)


1
2
3
4
5
6
A
B
C
D
KF
SW501
215C44201
G1
IC7WB
FL
C7WE
TP7WC
TP7WB
TP7WA
VR7WD
L7WA
C7WA
C7WK
C7WJ
VR7WE
C7WD
C7WL
C7WH
VR7WA
IC7WA
F7WA
FB
W1
FQ
FH
FZ
FN
G1
215C44701
VR7WC
VR7WB

PCB-TRIGGER & PCB-WB (S-SIDE)

SYMBOL NO.	ADDRESS
C 7WA	B-4
C 7WD	B-3
C 7WE	B-4
C 7WH	C-4
C 7WJ	B-4
C 7WK	B-4
C 7WL	C-3
F 7WA	C-3
IC7WA	C-5
IC7WB	B-2
L 7WA	B-2
SW501	A-6
TP7WA	B-4
TP7WB	B-4
TP7WC	B-4
VR7WA	C-4
VR7WB	D-5
VR7WC	D-4
VR7WD	B-4
VR7WE	B-4